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VOL. 16.

DIARY

From 28th May 1946
till 12th May 1948
but excluding period from
30th June 1946
till 8th August 1946, for that
period see end of Vol. 15.

A. W. Stelfox

KERRY TRIP 1946.

28th May 1946 (Tuesday). Left Dublin by 10 AM. train, arrived Tralee 7P.M, where met by car & drove to Cloghane at NE foot of Brandon Mt., where stayed. After heavy rain on 27th, rain again early today, but cleared about 8 AM. & only showers during day; strong, to gale, SE. wind with showers, dropping in evening, when rain came on at Cloghane about 10 P.M.

In Templemore station, Co. Tipperary, took a ♂ *Aspilota* (*Synaldis*) *passicornis* on carriage window : not kept.

In marshy ponds N. of railway (+ 1 mile W. of Banteer), W. of Mallow, Co. Cork, saw our first *Osmunda* — a very fine show; *Euphorbia* hibernica not seen for some miles further west & *Osmunda* very rarely until is crossed the divide into the Killarney basin & N. Kerry; N. of railway & 1 mile NE. of Rathcoole, saw a curious elongate, dry, turlough — shown as a lake on ½ Ord. Map, but today dry except possibly at extreme E. end, not visible from carriage.

29th May 1946. After gale (SE) & rain all night, gale continued with driving misty rain till mid day, sometimes heavier & sometimes clearing, with sun often visible, walked for a mile or so towards Brandon Village & back & watched birds very wetting!

29.5.46 cont.

As rain stopped about 2 P.M. walked up valley to Lough Aroorane into teeth of gale, round base of cliffs, &c, at head of lake & home at 6.30.

Pasture fields in valley full of purple Marsh Orchids — presumably O. majalis v. occidentalis Pugsl. but I doubt if this really differs from the Scottish O. purpurella Steph. Pinguicula grandiflora also abundant & very curious to see this growing within a yard of Cowslips, which are also abundant in the old pastures or hayfields.

Sax. umbrosa also a common roadside plant, with many clumps of Osmunda. Acres of wet marsh below & around L. Aroorane full of Schoenus nigricans & one plant of Pinguicula lusitanica, just in flower, seen near outlet from L. [illegible]. Also [illegible] a curious moss with fruits like [illegible], bright yellow & orange (? [illegible] No! [illegible]) & purple stems = Splachnum ampullaceum teste Meikle.

Sax. Geum the prevailing Saxifrage about L. Aroorane, & 100 yards above where its outlet reaches the road — valley — a luxuriant form with huge leaves grows on S. bank of the stream. Much Thyme seen at base of cliffs S. of lake,

Leaves of Sax. Geum much eaten by larvae of [illegible] most of which had [illegible] [illegible] fed on S. geum pupated & emerged on 12.7.1946 rather pale forms.

29.5.46, afternoon cont.

on the face of which is a patch of oak scrub (& no doubt other shrubs also). A few patches of Oxyria digyna & a few plants of Sedum roseum seen on cliffs, also one seedling Hieracium, alone representing the "Alpine". Many [illegible] plants, & [illegible] Fragaria, seen at base of cliffs. Collected a few mosses & hepatics for Meikle & Miss Thomson. Failed to find any Trichomanes radicans where my plant taken in 1914.

29.5.46, evening — No Tree Sparrows, nor at Clogher! ANS. 20.6.46.

After supper went to bridge to look for Tree Sparrows, as we had seen Sparrows there in afternoon (on request of Major R. F. Ruttledge), but none visible. There were in afternoon [illegible] grey heads & [illegible] many Sparrows were House Sparrows, yet all were [illegible] of this species. Perhaps there were some [illegible]! Went on across Owenmore for half a mile & then home. Saw [illegible] & [illegible] of [illegible] though chilly, drizzling & after 9 P.M.

30th May '46. After a fairly fine & calm night, wind back to S.E. & rising, & glass down & an ominous look about the tops above mountains. Nevertheless decided I must do something & e. plants all I possibly could, got lunch & made for Coumaknock on Brandon Mt at 11 a.m. just as drizzle started: proceeded by path to Faha & then on round shoulder of hill with gale & increasing rain in our backs & soon pretty wet on one side & one (left) foot full. Walked into coomb by one o'clock, so had lunch in shelter of huge boulder & watched rain drive up the coomb in waves. Waterfalls everywhere & increasing! During a lull we pushed on 1/4 mile & then had to seek shelter again as a deluge of rain, sleet & hail swept up the coomb. After hiding behind a boulder with umbrella for a roof, for nearly an hour, the wind changed, rain ceased to drizzle & we emerged, & picked our way across the coomb to foot of black cliff at about 1750 ft. & just below upper coomb, where I knew some Mossy Saxifrages were to be found. Spent some time here & collected some Sax. ~~[illegible]~~ caespitosa-like forms (= KB. Nos. 1 to 8) & then as mist made warmer & inclined to lift

& wind gone SW., went on into upper coomb to foot of path on to col N. of the summit. From this spot walked up talus of cliffs to S. (alt. c. 2500 ft.) up slopes of scree covered with [illegible] plants. On cliff about 6 ft. above slope was a patch of white flowers, which looked like gigantic Sax. stellaris, but on approach proved to be a Mossy & on closer inspection proved to be Don's Sax. affinis, said to have been originally taken on summit of Brandon by J.T. Mackay in 1805 & now said by Praeger ("Botanist in Ireland") to be "extinct". This plant had enormous (3/4 inch diam.) white flowers, with narrow, elongated, petals, tending to curve in along the sides — in fact as Don says & as Babington (in 3rd ed. of English Botany) reports, the characters distinguish it from all other Mossy Saxifrages, at least those which I have seen. Other mossies round about the upper terraces were not yet in flower, so cannot say if they were also affinis. Close by the above affinis (= KB-10 of my list & notes!) grew five or six small plants of Holly Fern in hollows of the cliff, about 3 ft from base. Alchemilla alpina was seen on N. side of ridge below upper tarns, & in centre of the coomb, & again frequently at base of upper cliffs, there I dont remember seeing it in 1910-12-14. Oxyria frequent & Sedum roseum everywhere. Perhaps the most surprising plant seen was the alien Epilobium ~~nummularifolium~~ pedunculare which now forms sheets along all the rills on high [illegible] & all over the summit. It was also curious to see Thyme almost everywhere, as this plant does not grow in the Galtees, where we have spent our last three [illegible] holidays. On way home via the "official" path along N. side of summit, at ca 2000 ft. found a mossy Saxifrage (KB-9) (in a rill) which at a distance looked like a hypnoides form, owing to the long barren shoots — probably due to fact that it gets the sun & was not affected by the recent drought, as most of the mossies on the summit have been; yet it was only in bud — what form it belongs to I cannot say, but it looked very different to those on other side & at head of summit. During the recent drought one of the pools between the cairns had dried up, with the result that when recent rain filled it, its floor of [illegible] being filled with air floated to the surface & looked like dead hedgehogs floating in the pool.

31st May 1946. A fine morning with sunshine, after a showery night, wind strong S.W., glass falling, in afternoon rain set in heavily about 4 PM & [illegible]

Spent morning writing up Saxifrages, taking notes & sending some off to Bernard Miller. After lunch went for walk to Brown — the little hill opposite Clogher, on E. side of estuary, where remains of woods evidenced by dense growth of Salix (mostly aurita), Corylus; one small bush of Betula also seen (the first in district!); very many species of sedges seen (C. binervis, Hornschuchiana, panicea, flava, pilulifera, goodenowii (nigra), pulicaris, echinata (stellulata), "vulpina" (paniculata), rostrata (in water), together with [illegible]). Some lovely patches of Pinguicula grandiflora in wet patches on W side of Brown & a few plants of Osmunda were there, but no other plants of interest seen.

Tried sweeping in lane from farm at bridge over Owenmore to coast & along shore, but my fine day was [illegible] out.

The following insects swept in lane or on shore:—

Lasius niger ☿ shaken out of overhanging vegetation on shore-bank

Myrmica ? 2 small ♂♂

Promethes pulchellus 1 ♀

P. cognatus ? 1 ♀, petiolus unmarked, [illegible]

31.5.46. contd. Brom, Cloghane, Co. Kerry. afternoon.
Malthinus [illegible] ♀, [illegible]
Hemiteles? a [illegible] ♀ =
Halictus ♂?
Apanteles of lateralis? ♂
Pentapleura pumilio ♀.
Dacnusa of [illegible] ♀, [illegible] dark legs, long [illegible]
& [illegible] 2-3, 4"

Elateid
Stratiomyid =
Several beetles

1st June 1946. A fine day, wind round to NW & moderate, after a fine night; all morning & mist clear till 1 PM, then mist above 2,000 ft. for most of afternoon, clearing at intervals & finally rising to 3,000 ft. about 7 PM.

Left hotel at 10.5 AM. & reached it again at 8.5 PM. Walked up to Foila & then on to ridge N. of [illegible] & slanted down to Owenafeane & walked up it to L. Duff, inspecting all the likely cliffs on left as we went. Had lunch by river at 1.30. The whole valley & cliffs very poor in plants but by the large series of waterfalls on Owenafeane at ca. 1200 ft. we discovered an abundance of Sibthorpia europaea, which so far as Scully knew had not been recorded from this valley previously; later found it by same stream, & very much dispersed ½ mile below L. Duff, at ca. 2,000 ft. or a little more ([illegible]).

Searched in vain for Kerry Saxifrage on the cliffs & by stream, until within ½ mile or so of L. Duff, then a form of S. "hirta" (looking very like hypnoides!) was spotted in flower, trailing through lush vegetation on both banks of the stream & up side tributaries for some distance, often growing amongst Juncus (of very [illegible] or effusus, latter not in flower), with long trailing shoots, many of which have simple

KB-13.

1.6.46. cont.
leaves just as in hypnoides, & some trifid leaves: flowering stems long & slender (4 to 5 inches) almost hairless, & even the flowers had a look of hypnoides about them. Other plants seen in the valley & on cliffs were: Carex laevigata (common on cliff slope S of Owenafeana at about 1200-1300 ft & just coming into flower); Pinguicula grandiflora (in profusion & making a fine show); Sedum roseum (the commonest "alpine" on the cliffs & also lower); Thymus sp. (coming into flower); Sax. umbrosa & some hybrid-looking forms but no or very little true Geum seen. Sax. stellaris (not seen until we got well over 1500 ft: & then frequent); Sibthorpia europaea (1200 ft & 2 [illegible] ft. on rocks by stream: see note on p 9 above); Hieracium sp. (= anglicum of Hart?) (one colony at about 1700 ft. above where crushed plants were seen); Solidago Virgaurea (one fine clump only, near last); Hymenophyllum sp. probably unilaterale (= peltatum) (frequent above 1500 ft.);

1.6.46, cont.
Lough Duff is a very pretty tarn, shallow & full of water plants Myriophyllum , Isoetes lacustris, Potamogeton (quite a dense mass of this at the NE corner) & in shallower parts (no doubt sometimes dry) mosses & a creeping bright green strap-like hepatic, on the day in about a foot of water, while on mud where a trickle entered at NE corner was an almost mono-specific Callitriche. Investigation with scoop at S & SW edge produced many Pisidium [illegible] (all apparently alive) & Ranunculus [illegible], an abundance of Gammarus, while the rocks were dotted all over with the white, eroded shells of Ancylus fluviatilis. According to 1" Ord. Map. this tarn is above 2250 ft. contour, which of course places it up about height of the highest tarn under Brandon in Coumaknock. After half an hour investigating the tarn we climbed up slope to N & onto ridge leading west ~~[illegible]~~ & then S along crest to where the pilgrims' path drops down into Coumaknock & so home by [illegible] 3.0 hg. On very top slope from L. Duff collected [illegible] Carex pilosa, C. tumidicarpa, C. pilulifera & C. echinata, also saw

1.6.46, cont

C. binervis here, & on ridge above at about 2700 ft. an abundance of C. rigida, I collected a few tufts just coming into flower. The vegetation along the crest towards Brandon is chiefly Rhacomitrium lanuginosum with very dwarf Vaccinium Myrtillus mixed with it & in places plenty of Campanula rotundifolia & here & there a clump of Sea Pink (in flower) & looking strangely out of place & nearly choked by the Rhacomitrium.

On way down from the col to Coumaknock the cliffs are very bare except for Sedum rosea & Sax. umbrosa, but we saw one fine old Holly Fern near top & the same small specimen seen on 30th May at base, & also Cystopteris fragilis (very sparingly). No mossy saxifrage was seen till the flowering clump of Sax. affinis was met (ref. to on p.5 antea!), but on a wet 'drip' between this & the highest NW tarn a very hairy S. hirta form was seen in plenty (= KB-14). Some tiny plants of Cardamine hirsuta were growing on the surface of the moss in this drip, from 1" to 3" high.

1.6.46, cont.

Saw very few insects during the day & did not attempt to sweep, but saw or took the following (by hand!):–

Butterflies. Green-veined White, Small Heath & Common Blue seen; all between Cloghane & Faha.

Bees. Andrena wilkella ♂ taken by river near Cloghane.
Bombus lucorum ♀♀ (several)
B. jonellus ♀ on [illegible] flowers, alt. c. 1000 — Owenafeana Valley.

Ants. Formica fusca ♀ seen above Faha.

Beetles. Carabus glabratus 1 taken at 1000 ft. just after crossing ridge into Owenafeana Valley from Faha.
Purple oil-beetle (1) only one seen & this in Owenafeana Valley.

Diptera. Hypoderma bovis 1 ♀ captured (by hand!) after it had circled round me ascending ridge above Faha & settled on stone in front.

Sawfly. Dolerus aeneus at lowest place to the Owenafeana, alt. c. 1500 ft.; only one seen.

"Insects" [illegible] were [illegible] on high ground after mist came down & [illegible] [illegible] & [illegible] in [illegible], [illegible] small Staph. beetle taken [illegible]

=

2nd June 1946. A showery day, but mainly fine, though mist & misty rain in mountains. Did not go out till after lunch, but then walked round each side of bay round N. end of Bross to Trenmaghe (or [illegible]) & back by road. Along N. side of the little hill - Bross - the vegetation grows right down to high-water mark, just as it does at Glengarriff, Co. Cork. Above there there is a dense scrub - quite impenetrable at most points - mainly composed of hazel. Some lovely patches of Pinguicula grandiflora were along the road. Collected a lot of mosses & hepatics for Miss Thomson & Bernard Neville (from two places mainly) - (1) On boulder along rough shore there had been a cliff a long time ago, & (2) on rocky cliff where small stream and had crossed the old road line, & (2) [illegible] far on dunes recently formed at south side of entrance to Trenmaghe inlet. labelled [N. Trenmaghe, Co. [illegible], 2.6.46.]

Sweeping done for half an hour, about 4.30 till 5.30 PM. & took the following insects [& labelled & put away on 13.10.1947 [illegible] 13.2.1949]

Myrmica scabrinodis dealated ♀, alone, running on dunes.
Dolichopus [illegible] ♂, small patch in [illegible]

Phygadeuon : ♂
Hemiteles : ♂

2.6.46, aft. cont. Sand-dunes, N. of Bross near Trenmaghe, [illegible], SK, cont.
Therevidae? ♂ = [illegible] [illegible] ?, [illegible]
Campsicnemus 2♂♂, 2♀♀ : 10?, 1♀ [illegible], [illegible], [illegible] =
= [illegible] of [illegible] ? ♂ ? 5
Aspilota
[illegible] [illegible] 2♀♀ 2♂♂ [illegible] [illegible] Dacnusa, ♂♀
[illegible] [illegible] [illegible] [illegible] [illegible], [illegible], ♂
Phaenocarpa [illegible] small ♀, [illegible]
Aspilota [illegible] ♀, very small, [illegible] [illegible] [illegible]

Dacnusa pestica, small ♀, [illegible], 57
Coelinius vidum : ♂, [illegible]; [illegible] [illegible] [illegible]

Proctos. (Phaenoserphidae) 2.

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3rd June 1946. A fine day, mainly sunny, till 5 P.M., with strong NW wind, then cloudy, the wind backing W & then S & increasing, with rain falling in evening. Left [illegible] in car at 10 A.M. to Stradbally & walked down to western end of L. Gill & round its N shore for 1½ miles; swept its NW corner & dunes between it & sea till 1 P.M. Then had lunch (= 1). After lunch swept in dunes & [illegible] marsh at intervals to Fermoyle House (= 2), then collected some Hydrobia jenkinsi for T. Warwick of Edinburgh.

During day saw many plants for first time since coming to [illegible], but did not really look for plants & many recorded by Hart (1883) not seen.

Sedges very numerous & saw the following:—
Carex goodenowii, C. otrubae (= vulpina auct.), C. paniculata, C. [illegible], C. hirta, C. rostrata, C. glauca, C. panicea, C. binervis & C. ~~riparia~~ acutiformis. The last (~~riparia~~ acutiformis) grows in a large patch by the river near Fermoyle Ho. & not recorded for the county in Scully's Flora of Kerry.

During the day saw five species of Bumble Bee
B. lucorum (frequent), B. lapidarius (near Fermoyle), B. hortorum (in lane below Stradbally), B. muscorum (common below Fermoyle Ho.), & B. agrorum (frequent near Stradbally):— all were ♀♀.

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3.6.46, cont. L. Gill & dunes, nr Stradbally, S.K. cont.
Saw no other aculeates, except thousands of Lasius niger & a few Myrmica ruginodis in the dunes, though the ground & the day seemed ideal for them. Swept 1 ♀ Halictus albipes in marsh near Fermoyle & saw one of Vespa rufa near Fermoyle [illegible] along road.

Sawflies frequent in marsh, but only Selandria serva, Dolerus [illegible] & Athalia [illegible] ♂ & first Tenthredo [illegible] (1) seen, apparently.

The following insects swept at 1 & 2:—

Insects taken at 1. [[illegible] & these labelled 14.2.49.]

Centeterus ♂ [illegible]

[illegible]

Bassus [illegible] ♀ [illegible]

[illegible] ♂ [illegible]

[illegible] = [illegible] ♀ [illegible]

Bracon [illegible] ♂, [illegible]

Apanteles sp. ♀

[illegible] 4 ♂♂ [illegible]

[illegible] ♀, [illegible]

Opius [illegible] ♀ [illegible]

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3.6.46, cont. Streedagh, Co. Sl., cont.

Aphidius [illegible], one ♂, net 17.

Dacnusa [illegible] — ♂, small, black, net 23 { [illegible] 12.7.1946 [illegible] 1948

D. [illegible] 1♂, 1♀ [illegible]

D. (Gyrocampa) affinis, large ♀, net 24.

Chalcids 2 [illegible]

Diapriid 1

Insects taken at 2. [10 nets from 2 + three labelled [illegible] 1949!]

Cryptinae 7 [illegible]

Pimplid ♂ [illegible] on 2.6.46, p. 15.

Meteorus [illegible] 2♂♂, 2♀♀, [illegible] } none [illegible].

Bracon [illegible] ♂.

Bracon anthracinus ♀, net 20 — [illegible]

B. [illegible] ♂, net 28

B. [illegible] ♂ net 29, [illegible]

Apanteles [illegible] 2♂♂. [illegible]

[illegible]

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3.6.46, cont. Streedagh, Sl., cont.

Perilitus [illegible] ♂, net 29, [illegible]

Macrocentrus [illegible] ♀, net 33.

Opius caesus 2♂♂ net 32.

Dacnusa [illegible] ♀, net 30 [illegible]

D. [illegible] ♂ [illegible]

Aphidius [illegible] ♀, [illegible]

Proctos. 1 [illegible] =

Cynipid 2 3 } net 33.

Chalcids 2.

4th June 1946. After a terrible night of wind and rain, [illegible] all day, with rain [illegible] in the [illegible], intense at times and then [illegible] again, but afternoon almost dry.

Spent morning writing and [illegible].

In afternoon walked to [illegible] Point, about 3 miles N. of [illegible], and home by road through [illegible], and saw some new plants including [illegible], [illegible] (one plant), Asperula cynanchica ([illegible]), Cochlearia groenlandica and ?hybrids with C. officinalis, Rubus caesius on beach, [illegible] and [illegible], [illegible]

4.6.46. cont. [illegible] Point, [illegible], S.K.
growing in a dry stone wall on roadside S of Ballyferriter — with [illegible] — the same type.
On beach S of [illegible] Point found a big colony of Phytia myosotis under loose stones & lying in gully on rock. Took following description:—
[illegible] flowers ♀, [illegible]. [illegible] ♀, [illegible] 23. =
& 1 [illegible] = [illegible] ♀.

5th June 1946. Gale & fearful rain all night & gale continued till 5 P.M. then a fearful squall & storm, then change of wind to W. & comparative calm. Did not go out till after lunch, except to get a few [illegible] & [illegible] [illegible].
At 2.45 started for L. Adoon, but when within half a mile of the lake a prolonged & heavy shower held us up & re-wet everything, so that we turned up the outlet stream to Lough [illegible], which lake was very flooded — naturally, but we walked along the western end & collected some water weeds including a Potamogeton, a Myriophyllum & Ranunculus [illegible] both [illegible] very common [illegible]

5.6.46, cont.
with very long leaves, & a little plant which proved to be Subularia, with one flower stem [illegible] — all cast on shore by storm, together with Reeds & stems of Equisetum limosum [the last from bay at E. end of lake which is filled with this horsetail.]

On way back to road during [illegible] spotted a fine specimen of the Kerry Slug (Geomalacus maculosus) which I had just passed over, & on moist lichen covered rock in bog I spotted another, thus extending the known range of this slug from Caragh Lake into the Dingle promontory. Though searched for in Sept 1910, June 1912 & Sept 1914 I never could find it on the promontory before [& we only saw it at this spot during the present trip.]
On road from Cloghane found a ♀ of Bombus derhamellus on the road & put it into the [illegible] & killed.
[illegible] Carabus nemoralis [illegible] taken near L. [illegible].

6th June 1946. A fine day after a calm & clear night following 7 P.M. squall & deluge on 5th, but cold and mist (westerly - NW - wind) on high ground for greater part of day & some fog through the day.

Left hotel at 10.30 & walked to Faha & thence to ridge to N, up ridge & on on slope W of Faha. After ? picked up the track leading to Coumaknock & Brandon summit — now little used by pilgrims, & almost obliterated in places & here referred to by me as "The Saint's Track". Reached ridge, N of Faha, at 11.30 & after examining neighbouring cliff on N side of Coumaknock (below the Saint's Track) reached upper (NW) lake at 1.30 & had lunch. After lunch collected [illegible] in lake (P. [illegible] & P. [illegible]), also Myriophyllum alterniflorum in small shallows near to the lake at E. end. then went round [illegible] at entrance and then [illegible] there. [illegible] fluviatilis [illegible]; then climbed up Z path on the rocks & went up to summit of Brandon, looking along tops of cliffs & in rocks on slopes for plants. After some time in cold mist on summit — following a clear spell [illegible] gorgeous view over the Atlantic from Brandon Point to Sybil Head. Descending — returned to Coumaknock & spent an hour looking for plants from foot of Z path

4 photos taken June 1952 by Miss M. P. H. Kertland M.A. on Brandon & in Coumaknock. A.W.S. Aug. 1952.

round cliffs W & S of highest (SW) lake, at from 2300 to 2400 ft. Had tea in comfortable shelter above lake at 4.30 P.M. Left lake about 6 P.M. & reached hotel by same route as in morning at 8.30 P.M. — a long & tiring day.
[? 7.30!!]

Collected Mossy Saxifrages KB-15 & KB-34 on cliff facing south on north side of Coumaknock; one ~~[illegible]~~ caespitosa-like form found by [illegible] under a boulder on slope to summit at about 3,000 ft.; no Saxifrages now seen on the big rock by the Holy Well on summit, but Poa alpina in flower & 2 inches in height, still there in some plenty, & at foot of rock in one clump of a rather straggly, leafy form of ? S. hirta which I did not touch; after returning to Coumaknock & collecting one more rosette of the S. affinis (KB-10) discovered on 30.5.46, for Dr. D. A. Webb, saw very many Mossies on cliffs W & S of uppermost lake at about 2,400 ft. & observed that these could be roughly divided into a very green almost glabrous form & a slightly silvery very hairy form & in one trickle found both growing intermixed (KB-28 & KB-29), so that so far as I could see environment would not have been responsible for the differences, unless these occurred independently [illegible] from the

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6.6.46.

my so called "Grasses" at Coom. Collected a bag of moss & Lepidoptera on face of rock looking east 100 yards SE of summit & at about 3,100 ft. alt., for Miss [illegible] & Desmond Meikle — only one of which had fruit, bright green globular capsules, & appears to be the same species I collected a few days before at [illegible] near [illegible]. Along cliffs from base of [illegible] path usual assortment [illegible] plants, e.g. Holly Fern, Saxifraga [illegible] spotted [illegible]), Oxyria, Sea Pink, Cochlearia alpina &c, but the most extraordinary find was a colony of Ranunculus auricomus — one flower spike in bud & about six seedlings scattered about the wet slope below it. In Scully's Flora of Kerry R. auricomus is only recorded from Ross Island, Killarney, & is a very recent discovery; that it should occur in Coumaknock at 2400–2500 ft. would be extraordinary, even if it was a common plant in the county, but under the circumstances prevailing it is amazing. The occurrence of Sea Pink amongst Sax. stellaris in the spray of waterfalls, [illegible] & [illegible] spring sources of water [illegible] & on the slopes to the summit [illegible] it fights it out with Rhacomitrium lanuginosum.

Did not collect any insects except a couple of beetles.

2 beetles [illegible] taken at over 3,000 ft.: 1 = Carabus catenulatus &

Also the Geranium molle [illegible] [illegible] MSS Westropp!

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7th June 1946 A fine day with small rain & no rain after early morning. [illegible] & I did not go out till the afternoon, then collected round about a [illegible] Brow near [illegible] the sandhills & round at N. end of same. Swept sandhills for an hour & took the following insects there:— [illegible] 17.2.1949]

Lasius flavus

Pompilus cf. pectinipes? ♀ seen

Ceropales maculatus ♂ & ♀ [illegible]

Oxybelus uniglumis ♂♂

Dolichurus [illegible] ♀, [illegible]

Vol 1 30 [illegible] [illegible]? : none mtd.

Vol II 12 including Pompilus [illegible]? ♂ & ♀, [illegible] ♂ none mtd.

Campoplegid 2 spp. 8 none mtd.

Apanteles [illegible] ♂

Amauronematus [illegible]

Meteorus [illegible] ♀, [illegible]

Perilitus [illegible]? : none mtd

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near Fermoyle,
7.6.46, cont. Sandhills, at N. end of Drom [illegible], SK, cont.
[illegible] lanipes : ♂♂ & ♀. [illegible]
[illegible] [illegible] ♂ [illegible]
Aphidius sp. ♀♀ = 6 [illegible] [illegible] ♀♀ incl. 12.
Proctos 4, including Proctotrupes [illegible] ♀ [illegible]

Chalcids 2 [illegible] See letter for [illegible].

Saw in garden behind hotel at 11 AM. Vespa rufa & V. sylvestris ♀♀. Crabro 4-maculatus, Bembex [illegible] & Tenthredo [illegible] & Also took Meteorus [illegible] ♀ on window in hotel [illegible] ; [illegible],

8th June 1946. After a fine night & morning, 2 hours heavy rain between 11 AM & 12 noon, then a very fine afternoon & not a breath of wind.

Walked up valley & then cut across moor on to the big moraine bounding N. shore of Lough Cruttia at foot of Coumaknock, round head of the lake & across outlet of L. Nalacken at 1150 ft & up slope south of same into south hanging valley between [illegible] & Beeland, round spur of Beeland & into next hanging valley to west & down into main corrie at west end of the L. & home via path N of L. Nalacken, down moraine & home by same route as outward journey in morning.

97

8.6.46, cont. Coumaknock, Brandon Mt, SK, cont.
When crossing moor in morning before rain came on a nice patch of Carex limosa, with C. dioica & a form of the latter (?) with both ♂ & ♀ flowers on same spike, as in the plant discovered by me in [illegible] bog, S. of [illegible], Co. WM, in June 1942. Brought many specimens today & seemed to prove it of the latter sedge. Also saw plenty of Pinguicula lusitanica on this moor — really a Scirpus moor, but with a great deal of Schoenus nigricans. Many nice plants seen at base of upper cliffs in the two hanging valleys: Aspidium lonchitis: quite a few plants seen here & there; Beech Fern: one nice little clump in a crack just west of Beeland, found only 2½ [illegible] high; Asplenium Ruta-muraria: a group of 3 tiny plants in chink near base of cliffs W of Beeland — a most strange find on Old Red Sandstone; Alchemilla alpina: in several places; Saussurea alpina: in a few or six places; Oxyria digyna: frequent as we approached the 2000 ft contour; Mossy Saxifrages: frequent, but not everything, chiefly on the screes below gullies & few on cliffs; forms from the big, long-leaved hirta, through small Drucei, to the [illegible] forms, having passed to affinis-like plants with stellate flowers; also several greenish [illegible] forms; about 20 bits brought to press. See [illegible] [illegible] & only a few plants seen. On way home saw above L. Nalacken

8.6.46, cont. Coumaknock, Brandon Mt., C.K., cont. Far more Pinguicula vulgaris than on any day previous during the trip & also, of course, most P. grandiflora though this now past its best.

In a small pool in western bog in valley (W of Brandon) much Potamogeton polygonifolius (?), all in flower. Searched most likely ground for Rev. H. Levy's station for Thalictrum alpinum but without success. [illegible] [illegible] ([illegible]), [illegible] [illegible] = [illegible] [illegible] [illegible]

In evening went with Major R.F. Ruttledge (who had arrived on 7th) to show him the Grasshopper Warbler we believed nesting on moor NW. of Cloghane.

9th June 1946. After a wet night, very thick rain fell all forenoon; fine in afternoon, but again rain from 7.30 PM onwards.

In afternoon walked nearly to Connor Pass & back but beyond Sibthorpia along roadside saw nothing of interest. Did not collect anything.

10th June 1946. A fine clear day with some showers & a very strong NW wind & driving gales. Got lift in car to end of road on cliffs N. of Brandon village & walked ± along cliffs to Sauce Creek & back via the new turf road to Teer, where picked up & brought back to Cloghane by car. Left hotel at 11 AM & back at 6.20 PM. Ruttledge went with me in morning & as we got out of car we were met by a Peregrine Falcon & pair Ravens, while down over the sea were many Fulmars & Gannets. Ruttledge later in day saw about 20 Fulmar pr on cliffs just inside Brandon Bay but none had eggs or appeared to be going to nest. Cliffs round Sauce Creek very dangerous & full of crevasses where chunks of cliff are slipping into sea. No trace of "alpinum" on these cliffs, beyond Sax. umbrosa & Solidago & the only plants seen of interest were Listera cordata amongst heather & Menyanthes trifoliata in small tarn just above Sauce Creek, at ca. 1100 ft.

In a swampy place just S. of Teer Bridge

10.6.46. cont. Saver Creek & Tees, L. SW, cont'd
Peplis portula & Potentilla palustris grow with
very common plants. Some of the Cerastium
seen along cliffs reached to a very large flower.
In some places above cliff there was a curious
plant association :- Bracken (dominant), with
Sedum anglicum, Bluebells (Scilla non-scripta),
Cerastium (cf. triviale), Rumex Acetosella, Galium
saxatile, & a small grass (Aira praecox).
The association of Sedum & Bluebells seemed
very strange, but explained by the overlapping of
two associations at the spot. One of the
most characteristic plants of the cliff edges
was Lastraea aemula. Three species of ants
were seen at about 1000 ft. near Saver Creek,
namely, Formica fusca, Lasius flavus, &
Myrmica scabrinodis — no doubt M. ruginodis
also present as many red ants seen but
only one examined. One Tiger beetle seen,
several Carabus taken & a couple of
Geotrupes (Typhoeus sp.) seen. No hymenoptera
other than the ants seen during the day.
(Carabus granulatus, [illegible] & 3 small black specimens.

11th June 1946. A wild, cold, day, with frequent
heavy showers of rain, sleet & hail, after heavy
showers in early morning; every place under water
& the hills soaking & rock slippery.
Got lift (at 10.30 AM) in car (taking Major [illegible] to Griff)
to Conor Pass & walked to Commeenare Lakes,
investigating on way peat deposit on ridge S. of
L. Doon & W. of Commeenare, for Tempest of Dundalk.
There large numbers of pointed pine sticks have been
found lying on surface between the peat hags (prior to 1938); did
not see any lying about but having saw broken end
of one sticking out of a 3 ft. peat hag & about 8"
from base, which on being excavated proved to
have been, sure enough, cut at end, & stuck in
about 13 inches inside the peat hag. Took sample
of peat for G. F. Mitchell in order to determine
if possible the age of these pointed sticks, locally
known as "arrows", which they certainly are not.
Had lunch in lee of peat hag at 1 P.M. & then
walked down to uppermost of the three Commeenare
Lakes & examined some small cliffs above it, but
Sax. stellaris, Sedum rosea & [illegible] the only plants
seen of interest here. Saw a fresh Bombus agrorum

32

11.6.46, contd. Coumeenoole & L. Camelaun, S.K., cont. on hills to W. of lake. Went walked across by the the little Lough Barnet & down slope to Lough Camelaun & had tea amongst rocks on its W. side: very windy here — full gale up lake! — & rain & full lake made investigation difficult & unpleasant, but think we saw quite a lot of Subularia aquatica, though Elatine hexandra eluded → too early for this! me, — unless a Callitriche the plant in it, this & Subularia I brought away to grow (& it subsequently flowering!). The shallow areas to this lake is almost filled by a bed of Equisetum limosum & in this we started a Teal (female) which from her actions evidently had a brood hidden amongst the Equisetum. Menyanthes, Littorella littoralis, the long-leaved Isoetes & Juncus bulbosus also growing in the lake. On way back to road W. of L. Camelaun again took Geomalacus maculosus — this time a large specimen — crawling on a rock, in almost the exact spot two taken on 5th June (p. 21) & so home at 7.10 PM. {2 bottles =

On the col between Coomnacronia Pass & Coumeenoole the bare ground between the peat hags is rapidly being colonized by plants, including Sea Pink (Armeria)!!

33

12th June 1946. A very fine day — the best since we came to Kerry — with NW breeze — all sunny.

Too tired & too many things to do to go out for the day: spent morning writing letters & getting things packed up for various persons, but went out at 11-30 to get some Oxalis "magellanica" for Vermeulen of Amsterdam & after getting this, swept herbage in fields on left bank of the river that comes down from Feda & here took: ——— = (1) 12.6.46.
[2 mounted & then labelled 18.9.1946!]

[illegible] 20 [illegible], 17 =

[illegible] [illegible] ♂ [illegible] not ent.
[illegible] ♀ : none ent.

[illegible] [illegible] ♂ }
[illegible] [illegible] ♀ } none ent.
[illegible] [illegible] }

[illegible] not ent. B [illegible] [illegible] from [illegible], 19.7.44.
[illegible] ♀, [illegible] [illegible]
[illegible] O. [illegible] [illegible], 39, [illegible]
[illegible] ([illegible]) [illegible] ♂. [illegible] [illegible] ♀, not ent.
not ent.

34

12-6-46, cont. — Cloghane, Co. K., cont.

Dasineura [illegible] on [illegible] – not old [illegible] – [illegible]

[illegible] of 4 {1 [illegible] = [illegible] of [illegible] [illegible] [illegible]} Bombus 4 [illegible]

Bombus [illegible] ♀ [illegible] [illegible]

{1 Bombus jonellus ♀. : : 4}

= (2) 12.6.46

In afternoon, went along shore N. of village for a mile but beyond collecting a few beetles, did not collect. Saw the following insects here (= 12.6.46 (2)). [3 [illegible] beetles [illegible] added 12.2.1949.]

[illegible] larvae, pupae & [illegible] (1) ♀♀ [illegible] of [illegible].

Halictus rubicundus & many burrows of a small species — probably nitidiusculus at north [illegible].

Vespa vulgaris ♀.

Odynerus trimarginatus (of my third list) ♂ & watched ♀ getting clay on shore.

[illegible] ? ♀ taken [illegible] on a bramble leaf.

Beetles 1 small [illegible] not recorded =

Compared [illegible] 30 =

+ Beetles

35

13th June 1946. A fine morning, turning misty about noon, then dull, then drizzle about 3 P.M. & rain later. Went up [illegible], with Mr & Mrs Smith (of Dublin), parted from them at top of Z path above highest tarn, & we went N. along E. to summit of Brandon. We had lunch in shelter above corrie N. of [illegible] & then walked on to ~~Piaramore, where on N.E. side a little below summit found Hart's station for Polygonum viviparum; here the plant [illegible] abundant, growing in dense vegetation of grass, sedge & moss, with [illegible] & short [illegible], on flat ledges below the ridge, & looking very like dwarf Rumex Acetosa — we might not have seen it but for Hart's record & [illegible] not have looked at it twice. By then the rain was coming on, so we cut down to Owenafeana valley & came [illegible] to Faha & so home at 6.30 P.M.~~

A mistake!

See p. 40 for record of Polygonum viviparum!

26.

14th June 1946. A day of drizzling, though mainly fine in afternoon & evening. Brandon smothered in wet mist all day, driving mist occasionally from SW at intervals all day. Did not go out, beyond garden, till afternoon, then walked half way to Fermoyle & back & collected some grasses & sedges. Had Mr & Mrs Smith & Miss Lynch (of Dublin) to tea — the big mountaineering friends who are staying at Fitzgerald's Hotel in Castlegregory & saw it in fine form.

In forenoon spent an hour in garden & saw several ♂♂ & ♀♀ Megachile the latter chiefly at flowers of Borage. Also saw in garden the sawflies Tenthredo mesomelas & Cimbex & a species of Athalia. [All with proper [illegible] & then labelled 19.2.1947 as follows:]
Crabro dimidiatus, 2♂♂, 1♀. Megachile willughbiella & [illegible] 1♀ [illegible]
Halictus albipes ♀. Tenthredo mesomelas (?) ♀. T. [illegible] ♀.
Vespa rufa ♀.
Stenichneumon of ? near castaneus, but much smaller & more like to [illegible], but post-petiole not [illegible], ♀, ent. 34.
Mesoleius ♂, ent. 35.

27.

15th June 1946. Another day of mist in the hills, but no rain & fine in the lowlands below 2000 ft. Got lift in car to near Gahernagh, above (S. of) Camp & walked up old road from Finglas River & up the ridge where the "Caher" is on to Caherconree, in thick wet driving mist after 1500 ft. On reaching summit cairn 2713 ft., skirted eastwards along the ridge between this & Baurtregaum & then down to Derrymore Lakes. Had lunch about 2 PM overlooking the lakes & then explored the corry, as far as mist would allow, & found a few Mossy Saxifrages along the stream coming down the slope, but failed to locate the cliffs where D.A. Webb got his "Mossies" here during last March. On way up to Caherconree saw sheets of Salix herbacea on the scarps, facing W, SW, & NW, below the "Caher", while on the flat above this we saw plenty of Empetrum nigrum for the first time during our visit, though Scully says it is abundant on all the Kerry mountains over 1500 ft. we have not seen it about Brandon. Here off the [illegible] on rock at top of Brandon & then took a ♀ [illegible] identified by R.B. Benson [illegible] 6.12.1945 as [illegible] Benson. [presumably a ♂ [illegible] AWS]

16th June 1946. A fairly fine day after a wet night, with some drizzle in morning & slight showers in afternoon. Only out for a short walk before dinner, & in afternoon walked along Fernyside road & on the sandy flat N. end of Broom — the hill on E. side of Clophill estuary — there swept for insects for about an hour, but it was rather [illegible] & dry w. cool breeze, & no [illegible] seen on road. The following insects swept here, either on road or along edge of field thro' wood or in the borders along field.

Anthon sp. 2 ♂♂ [Gastr. 2 thus labelled 19.2.1949! AWS.]

Tenthredo mesomela ♀

Dolerus [illegible] ♂.

Empria ♀.

Pachyprotasis rapae 1 with.

Platylabus ? of [illegible] ♂, ent. 43, [illegible]

[illegible] 6 none with.

Polyblastus sp. 2 not with.

Promethes [illegible] ♀ = cognatus, ent. 33.

Triclistus globiceps ent. 44

Exochus tibialis ♀ ent. 26

16. 6. 46, cont. Broom, nr. Fernyside, Clophill, C. Bk, cont.

[illegible] ? [illegible] ♂, ent. [illegible], [illegible] with [illegible] =

6 Campoplegids 4 with.

Capitulus [illegible] ♂ [illegible]

Meteorus sp. pallidus ♀, ent. 26.

Perilitus [illegible] not with.

Centistes [illegible] not with.

Dinotrema [illegible] not with.

Pentapleura pumilio [illegible] not with.

Aspilota sp. [illegible] ♀, ent. 18.

A. seminicornis sp. n. ♀ Type! AWS 6.3.1949. {black, with [illegible], ant. 17, [illegible]; [illegible] 1.5 mm.}

Dacnusa pubescens ♀.

D. laevipectus ? ♂♂, 85

D. areolaris 2 ♀♀.

D. [illegible] ♂.

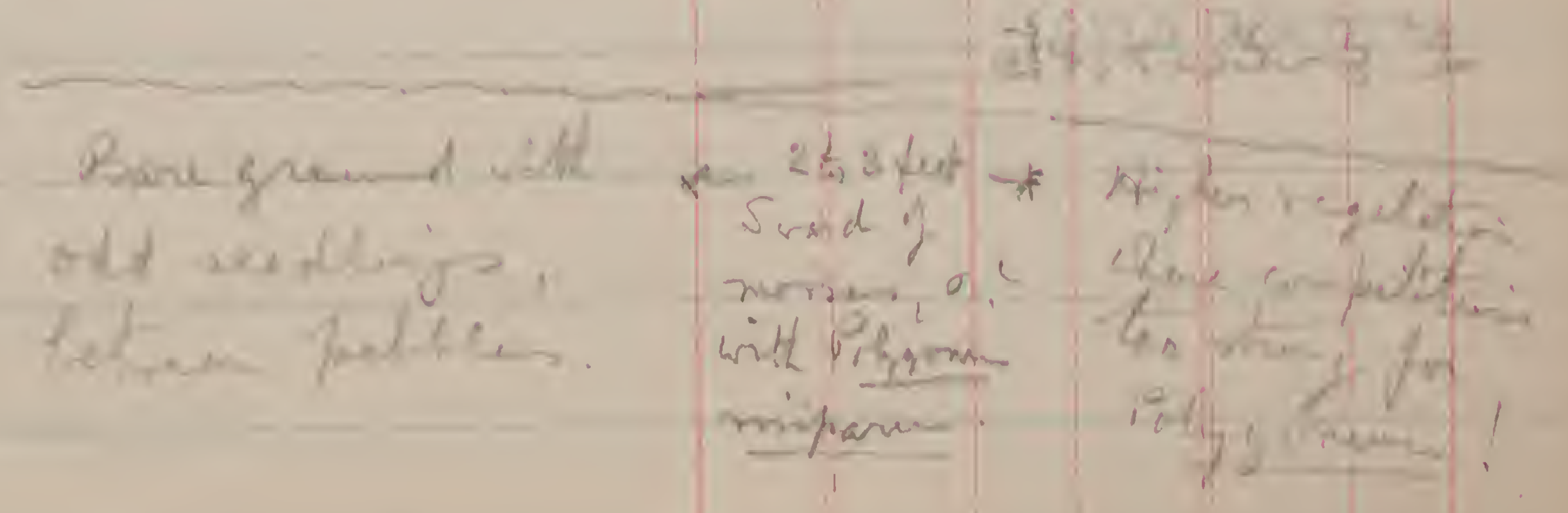
Aphidius sp. 3 } none with.

Proctos.

Chalcids.

17th June 1946. A wild day with showers & thick cold wet fog on coast & summits over 1400 ft. Walked from hotel (10.20 a.m.) to [illegible] across ridge to N. side & [illegible] valley & the [illegible] straight down at [illegible] & [illegible] for [illegible], but spent some time on a high rocky [illegible] scarp facing E. which is [illegible] of that hill [illegible] ([illegible]). on reaching [illegible] turned N. in thick fog — very wetting & cold rain driven by a gale from N.W. crossing the ridge —, next located the rocky scarp & then the nearby 'Monument' of Ord. Map & referred to by Hart (1884) apparently as 'the ruins of an old signal tower', & commenced to search round the bank for Hart's Polygonum viviparum on the gravel flats between belts of vegetation. P. viviparum eventually discovered by Daisy in centre of square of rough walling which rises from 'The Monument' — very like Sorrel in its leaves but these simple at base & not sagittate, also decidedly more elongate as a rule, but near enough to excuse me mistaking a green little form of sorrel for it under the conditions prevailing on 13-6-46; eventually found one specimen with flower spike showing & as we had much to do, pushed on N.W, in mist, towards W. shoulder of [illegible] &

on along cliff edge to Knocknabreaster to locate place where R. J. Welch & I found Mossy Saxifrages in Sept. 1910: eventually under the highest & most dangerous piece of cliff located these in plenty & in good flower: three main forms located & specimens taken: (1) a large leafy form very near the Clare Island rosacea (2) a smaller greener form & (3) an affinis-like form with stellate flowers with narrow petals & dense rosettes. Here (Knocknabreaster cliffs) saw much Oxyria digyna, Silene maritima, Sax. Geum & umbrosa, Sedum, ferns, Solidago, & the usual common plants of the cliffs in the district. After afternoon tea, returned to The Monument & after considerable search found a lot more Polygonum viviparum on the edge of bare ground close by the Monument & to NE of same. Here it grew plentifully in a 'sward' partly of mosses, including Rhacomitrium lanuginosum; the following is a rough section of the habitat:—


Bare ground with old seedlings, between pebbles.
2 to 3 feet
Sward of mosses, &c with Polygonum viviparum.
Higher vegetation – here competition too strong for Polygonum!

Returned via semi filled-in tarn NE of L. Cruttia & thence down the Owenafeana & over the ridge to Faha & back to hotel at 5.30 PM. On way down the Owenafeana Sibthorpia europaea in several new spots. After leaving Pierasmore ridge at 2.30 PM we went down the slope to Knockbrackreenta & into brilliant sun & warmth, returning through the cold mist on return journey.

18th June 1946. Another wild day with gales from S.W. & W., cold, with wet mist on mountains over 2,000 ft & frequent showers, including hail. Got lift in car (Mr McBarrit & his friend Stafford) to Clogharee, S. of Cloghane, & walked up corrie east of L. Avoonane, to ridge & then up along edge of cliffs to Brandon Peak. Had lunch just below ridge & afternoon tea on top of Coumaknock half way between Brandon Peak & Brandon Mt. From Brandon Peak we faced first down &

then up to the summit of Brandon Mt. Found first mossy Saxifrage at afternoon tea place, between two upright rocks 6 feet below actual top of cliffs, overlooking tarns next above L. Nalacken, & the second a beautiful little caespitosa like ~~[illegible]~~ form on dry rock on S. slope about 100 feet below the summit of Brandon, with two other plants on next crack below on same rock. Left top of ridge at 5.10 PM. & came down Coumaknock to hotel at 7.30 PM.

Saw a few interesting plants here & there on cliffs but these unreachable owing to wind & slippery rocks & wet slopes.

Took one beetle at ca 3,500 ft on Brandon Mt. =

19th June '46. A fair day, with some showers & drizzle, strong S.W. wind, cool. Spent day packing & writing letters & notes. [illegible] caught in hotel a [illegible] moth which = Agrotis puta Hübner, ♂. (fide M.S.D. Westropp!) a 2nd Irish locality.

20th June 1946. Left [illegible] at 7.45 in hotel car & caught 9 A.M. train from Tralee, arrived Kingsbridge, Dublin, at 6.20 & home 20 minutes late. A day of heavy showers & garden fruit out on arrival home. Took our [illegible] [illegible] in [illegible]

=

END OF KERRY TRIP.

21st June 1946. Much warmer & fine all day, with much very hot sun — the first really summer day of the month. Spent day planting Saxifrages, &c. & feeding animals.

22nd June 1946. An intensely hot, sultry day with fierce sun during most of the time. Back in museum! Left there at 5 P.M. Frank Winder called in evening.

23rd June 1946. Another very hot day, with fierce sun & falling glass, wind rising in afternoon & strong S.W. in evening, when much cooler. Showers, very local, in late afternoon, but we got none.

At 2 P.M. left in car & drove to Landenstown (where collected for about three hours), on Grand Canal, W. of Sallins, Co. Kildare. Collected in two places:—

1 = Plantation, with nearby drain, W. edge of bog & cut field S of road, ¼ m E. of track to Landenstown Ho.

2 = Edge of canal for ½ mile W. of [illegible] Lock: Iris, reeds, meadowsweet, sedge, grasses, mint &c. along edge of canal.

Insects taken at 1. [16 mounted from [illegible] labelled 23.6.1946.]

Crabro chrysostomus ♂.
[illegible] ♂
Tenthredo atra ♀. T. mesomelas ♀ [illegible]
Empria ♀.
Selandria ♂

23. 6. 46, cont. Landenstown, KD, cont.

Taken at 1, cont.

Phaeogenes? 2 ♂♂, not ntd.

Cryptinid ♀; not ntd.

Schizopyga circulator ♀, ant. 33, [illegible] ! {♂♂ taken here [illegible] 1939-1940!}

Polysphincta varipes ? 2 ♂♂, not ntd.

Ctenisciid ♂, ant. 26 =

Promethes sulcator ♂ & ♀; + P. cognatus ♂: not ntd

P. pulchellus ? ♀: not ntd.

Homocidus [illegible] ♂: not ntd

Tryphon signator ? ♀; not ntd

Mesoleiid ♂ = Perilissus [illegible] ♂, ant. 33

Campoplegid ♀, not ntd.

Mesochorus ♂, not ntd

Thersilochid ♀ not ntd

Adelognathus dorsalis ♀, ant. 14.

Bracon [illegible] ♀ – [illegible]; ant. 35

B. [illegible] ♀; ant. 25+ (broken), but head seems too transverse [illegible]

Apanteles fulvipes group 3 ♂♂, + A. [illegible] ? ♂: not ntd.

A. sp. 2 ♀♀ = A. cf emarginatus Nees.

23. 6. 46, cont. Landenstown, KD, cont.

Taken at 1, cont.

Meteorus fragilis ♀, ant. 32.

M. micropterus ♀, short winged ♀; not ntd

Blacus paganus? ♀♀, one large, one small, ant. both 17.

Aspilota fuscicornis, 1 ♀, ant. bitten off at 20th segment.

A. sp. [illegible] ♂, ant. 22. A. sp. [illegible] ♂, ant. 19, small.

Dacnusa areolaris ♂♂ & ♀♀ frequent.

D. [illegible] ♀. D. longiradialis ♀. } [illegible] mounted!

D. [illegible] ? ♂. D. [illegible] ♀.

D. [illegible] ♂, ant. 35.

D. (Coelinius) sp.? ♀, ant. 35, 3 dentate mandible, long slender petiole. →

D. affinis? large ♀, ant. 34, [illegible]!

Coelinius [illegible] ♀, ant. 29.

Aphidius sp. 3 ♂♂ not ntd

Rooks. about a dozen (4 mounted), [illegible]

=

Chalcid ♀; not ntd

Cynipid 1, not ntd.

47.

23.6.46, cont. Landenstown, Co. KD., cont.

Taken at 2. [17 odd ones, including ♀ Donacia, & then labelled 28.8.49!]

Dolerus palustris ♂ not std.

Ichneumon latrator ? ♀. not std

I. ? ♂ = not std.

[illegible] small ♂, not. 31

Pimpla similis ? ♀, not. 33

Mesochorus small ♂ = not std.

Meloboris ♂, red coxae. not std

Beetles :—

♀ Donacia & D. clavipes 1.

D. simplex ([illegible]) 1.

D. sericea 3.

D. discolor (= comari) 4.

Bracon undulator ♀, not. 30, very nice specimen.

[illegible] sp. ? 1, not 32; [illegible]?

Apanteles spurius, prob ♂ not std

Microgaster sp. [illegible] ♂

Opius caesus ♂ & O. irregularis ♀, neither std

O. lugens ♀, not. 19.

Pentapleura pumilio ♂ not std.

Dacnusa [illegible] ♂ & D. [illegible] ♂ not std

D. areolaris ♂♂ & ♀♀ frequent: none std.

D. [illegible] ♂, not. 29.

D. [illegible] ♀, not 28.

Aphidius sp ♂.
Chalcids 2.
Cynipid 1.
} none std

♀ Cryptinid not 34 taken [illegible] at Celbridge, Co. KD. on 27.6.1946 11

For dates between 23.6.1946 & 11.8.1946 see end of previous volume. A.W.S.

August 1946: continued from Vol. 15 48.

11th August 1946. A fine [illegible] morning after a fine day & night, with rapidly rising glass, followed by a fair day, wind SE. & heavy rain & [illegible] from 4 P.M. onwards.

Left home in car at 2 P.M. & drove to Landenstown, Co. KD., on Grand Canal, arriving there about 2.30, & [illegible] for a fine afternoon, but SE wind [illegible] & [illegible] by 3 P.M. it was obvious that rain would soon follow; at 3.30 wind dropped dead; at 3.52 a squall from S. heralded the rain, which commenced a few minutes later. Left Landenstown at 4.30 & returned via Celbridge & Lucan arriving home about 5.30.

Collected in two areas before rain at Landenstown, as follows:—

1 = Drain S. of road, plantation, reed-bed by drain S. of plantation & NW corner of hay field S. of plantation, 1/4 mile E. of Landenstown Ho.

2 = W. edge of S end of last field which was in oats & rather weedy

49

11.8.46, cont. Landerton, Co. KD., cont.

Taken at 1. [See [illegible] of [illegible] 16.7.1947 [illegible] 13.7.46!] Bombus distinguendus ♀ seen.

Spilomena troglodytes ♀, in [illegible] at NW edge of field.

Trypoxylon attenuatum ♂; except recd. in plantation} [!N.H.S. 13.8.46: not to Ireland.]

[No [illegible] Ichneumonids]

Tryphonids 7: 4 mounted = Homotherus [illegible] ♂ ant. 8, small, [illegible]

[illegible] ♂ [illegible] [illegible] ♀ [illegible] ant. 18

[illegible] ♀ [illegible] ♂ ant 22, [illegible]

Pimpla melanopyga [illegible] ♀ in drain of plantation [illegible]

[illegible] of [illegible] ♀, ant 34.

Stenomacrus [illegible] ♀, ant 25, [illegible]

Homocidus [illegible] [illegible] H. pallipes ♀, [illegible]

Promethes sulcator 2 ♂♂ not mtd

Campoplegids 5 = [illegible] ♂ & ♀, ant 34 [illegible] black coxae [illegible] ♂ [illegible] [illegible]

[illegible] ♀, ant 26. Gen. [illegible] ♂, ant 29 =

[illegible] ? ♂ not mtd.

Plectiscids 3 = Proclitus [illegible] ♂, 17, ant. [illegible] 20 =

Gen. et sp. 3 ([illegible]) ♂ ant. 23, [illegible]

[No Bracon sp.!]

Apanteles [illegible] ♀.

Perilitus sp. ♂, [illegible] ant. 22. Blacus [illegible] ♀, ant. 17 [illegible] no longer than the [illegible] below!

Blacus [illegible] 2 ♀♀; [illegible] ant 17 =

[illegible] 2 ♀♀ not mtd

50

11.8.46 cont. Landerton, KD, cont.

Opius [illegible] ♂, ant 24) Taken at 1 cont.

O. comatus 1 ♂, ant. 29; [illegible]!

O. [illegible] a small ♀, ant only 26.

O. [illegible] Hal. 1 ♀, [illegible] ant 22.

Pentapleura pumilio 2 ♂♂ not mtd.

Alloea contracta ♀, ant 29.

[No other Alysiinae except Aspilota!]

Aspilota [illegible] a ♀, [illegible] ant only 21. A. [illegible] 1 ♂, ant. 30

A. [illegible] 1 ♀, [illegible] ant 15.

A. ([illegible]) [illegible] ♂ 13, 12 ♀ [illegible]

Dacnusa [illegible] ♂, 18

D. [illegible] 17 D. [illegible] 2 ♂♂ } none mtd.

D. [illegible] 18 D. [illegible] 16

D. [illegible] ♂, ant 27.

D. affinis ♀: not mtd.

[illegible] volucris ♀, ant 20.

P. [illegible] ♀, ant 14.

Microctonus [illegible] ♀

Triaspis [illegible] ♀, ant 11.

Aphidius spp. 4: 3 mtd = A. sp. [illegible] Hal. ♀, ant. 18, [illegible] not [illegible]!

A. [illegible] ♀, ant. 17; [illegible] ♂, ant 14

Ephedrus validus 2 ♀♀: not mtd

11.8.46, cont. [illegible], KD, cont.

Taken at 1 cont.

Proctos very common: about 20 in sweeper; 7 retd. = [illegible] [illegible] ♂.

Chalcids abundant: 16 in sweeper.

Cynipids 7 in sweeper.

Diptera

11.8.46, cont. [illegible], KD. cont.

Taken at 2 (Cornfield) [13 retd. from 2; these labelled 20.4.1949!]

[illegible] ♀ 1 retd.

[illegible] ♀ ♂, ret. 29.

[illegible] ♀, ret 27 =

[illegible] ♂. retd.

[illegible] [illegible] [illegible] ♀, ret. 27; [illegible] [illegible] [illegible] segment of flagellum [illegible] [illegible]

[illegible] [illegible] Hal. ♀, ret. 26.

[illegible] [illegible] ♀ in Salix, not retd.

[illegible] [illegible] large ♂ on Salix, ret. 20.

11.8.46, cont. [illegible], KD, cont.

[illegible] [illegible] ♂, ret 34.

Opius [illegible] [illegible] 2♀♀, ret. 22, 30 & 33.

[illegible] [illegible] 2♀♀, 1♂, [illegible] [illegible]

[illegible] [illegible] ♂ 1♀, very small specimen, [illegible], ret. 14, others [illegible]!!

[illegible] ([illegible]) [illegible] ♂, ret 42.

[illegible] [illegible] 3♀♀, not retd.

D. [illegible] 2♀♀, rather larger than [illegible]; not retd.

D. [illegible] (Hal.) [illegible] 1 very small [illegible] ♂, ret. 35.

D. [illegible] ♀, very small sp., [illegible] [illegible], ret. 17 = [illegible] [illegible] Nix.

[illegible] [illegible] ♀, [illegible] [illegible] [illegible], ret. 19.

Aphidiini ♀♂ 7: none retd.

Proctos: 2
Chalcids 4 } none retd.
Cynipids 1.

Main body of [illegible] reported on right of 12th, 13th & after [illegible] [illegible]

14th August 1946. A very nice day after a terrible day of gale & wind on 12th & heavy cold showers & N. wind on 13th. Left home in car at 10 A.M. & drove to far end of Brittas Bay Co. Wi. arriving at about noon, as we had stopped for a few minutes at top of hill S. of Rathnew to admire the view of the Wicklow hills & immediately look at position of the Junkers plane which crashed almost on summit of Djouce on Monday (12th) afternoon with French Girl Guides — nobody being killed!

Wind W. & light in morning, but a sudden cold N.E. wind came in off the sea at 12.30 & lasted for half an hour; then wind SE & light & later SW. & then W. & finally N. At 4.30 PM an obvious rain formed of hills to N & NW. & as we left for home at 5 P.M. it had reached the ridge of hills S. of Wicklow; we drove through it near Redcross & then for miles on flooded roads & out into sunshine. Another very heavy shower from N. hit Dublin at 7.30 PM. & lasted 15 minutes.

The rain on 10th had flooded the lagoon in dunes & the great marsh behind them & so

14.8.46, cont. — Buckroney dunes, Wx, cont. collecting in the better spots [illegible] & most [illegible] in the [illegible] collected by sweeping in the areas, as follows: —

1 = Sand dunes S. of outlet of marsh & of Mizen Head & just E. of old road through dunes & N. of lagoon in dunes.

2 = Short Salix & Rubus scrub (thicket) in hollow E. of station 1 & on S.W. edge of the lagoon, there much Juncus acutus & Salix repens.

3 = Similar habitat in next hollow S. of station 3.

4 = Flooded edge of lagoon among, today full of water but normally dry in summer, [illegible] most Scirpus maritimus, Scirpus Tabernaemontani, Juncus acutus, J. maritimus, [illegible], etc.; but the best found under water.

Butterflies seen during day — Meadow Brown very common, Grayling common; Common Blue & Small Copper one of each only, the former a ♂.

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14-5 [illegible], cont. Buckroney dunes, Wi.

Taken at 1. [[illegible] 1947]

[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] 1 ♂, [illegible]

Tachysphex pectinipes ♀ Pompilus plumbeus ♂♂♀

Mellinus [illegible] [illegible] [illegible]

Bembex [illegible] ♂♂ 1 ♀♀

B. [illegible] [illegible] [illegible] [illegible]

Vespa rufa ♀♀ [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible].

[illegible] ♂

Sawflies Selandria flavens ♂♂ [illegible]

S. [illegible] ♂♂ ♀

Allantus cinctus ♀♀

Athalia [illegible] [illegible].

"Ichneumon" perscrutator ♀ = [illegible] [illegible] ant. 42.

Phygadeuon [illegible] ♀, ant. [illegible] [illegible]

[illegible] 17, [illegible], ♂ ♀ [illegible] [illegible] [illegible]

[illegible] [illegible] ♂ ant. 23. H. [illegible] ♀, ant. [illegible] [illegible]

[illegible] ant. 22. [illegible] ant. [illegible]

[illegible] ♀, ant. 22.

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14-5 [illegible], cont. Buckroney dunes, Wi., cont.

Taken at 1, cont.

[illegible] parallela ♂ [illegible] ♀♀ [illegible]

[illegible] [illegible] ♀, ant. 35.

[illegible] [illegible] ♀, ant. 34.

[illegible] [illegible] ♂ [illegible]

[illegible] [illegible] ♂ ♀ [illegible]

Homocidus signatus ♀. ant.

[illegible] ♀ 1 ♂, ant. 31.

Stenomacrus [illegible] ♀, ant. 20 Triclistus podagricus [illegible] ant. 22.

"Orthocentrus radialis" ♀, ant [illegible] ant. 29-30.

[illegible] [illegible] ♀ (♂♂ 1 ♀♀) : [illegible] = [illegible] [illegible] ant. ♂ 32, ♀ 36.

[illegible] 1 ♀ ant. 20 =

[illegible] [illegible] ♀. [illegible]

Bassus [illegible] ♀♀; ant. 19 + 20

B. [illegible] ♀, ant. 29

B. [illegible] ♀, ant. 32.

[illegible] [illegible] ♂, ant. [illegible]

[illegible] [illegible] ♀ [illegible].

[illegible] [illegible] [illegible] 4 [illegible] ant. [illegible], 33 + 34.

Aspilota 4 : [illegible] = A. [illegible] 15, 17.

A. ♀ ♂, small, dark, [illegible].

57.

14 8 46, cont. Buckroney dunes, W1, cont.

Tub. ct 1 cont.

[illegible] ♂, cut 31.

Meteorus pallidus ♂, cut 25.

Diospilus [illegible] ♀, cut 24.

Opius ? minutissimus or elegans (?) cut 22, 1♀ smaller, cut 31.

O. [illegible], 1♂, cut 24.

Orthostigma ? of [illegible] ♀, cut 18.

[illegible] [illegible] ♂, cut 22.

C. ([illegible]) [illegible] ♀, cut 15, [illegible]

Dacnusa [illegible] 8 ♀♀: none cut.

D. [illegible] 1: not cut.

D. confinis 1 small ♀, cut 21.

[No Aphidiini!]

Proctos: 13: 6 cut.

Chalcids abundant: 26 [illegible]; 5 cut.

Cynipoids 2: not cut.

Diptera ? [illegible] [illegible]

[illegible]

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14 8 46, cont. Buckroney dunes: W1, cont.

Tipton ct 2. [illegible]

[illegible] [illegible] ♂, cut 24.

Vol. I. Ichs. [illegible]: [illegible] =

[illegible] [illegible] [illegible] ♂, cut 18.

[illegible] [illegible] = [illegible]

Cryptini 8: 6 cut = [illegible] [illegible] [illegible]: 1♂, 1♀; [illegible]

[illegible] [illegible], cut 24. [illegible] [illegible] ♀, cut 22

[illegible] of [illegible] group, ♀, cut 22 [illegible] [illegible]

[illegible] [illegible]

[illegible] [illegible] [illegible] not cut.

[illegible] [illegible] ♂♂: all cut, cut 22 & 22 =

[illegible] [illegible]: [illegible] cut 33.

[illegible] [illegible] [illegible] cut 36. not killed off! [illegible] ♀, cut 32

[illegible] [illegible] ♀, cut 27.

[illegible] ♂ (cut 26), 2♀♀ (cut [illegible]).

[illegible] [illegible] ♂, cut 22, yellow [illegible], [illegible], [illegible]

[illegible] [illegible] = [illegible] ♂, cut 33

[illegible] [illegible] ♂, cut 32, very small.

[illegible] [illegible] ♂, cut 36 [illegible] ♀, cut 30

14. 8. 46, cont. Brecknock dunes, Wl, cont.

Taken at 2, cont.

[illegible] 2♂♂, ret 22-25, latter mounted = [illegible]

[illegible] ♀, ret 21

[illegible] [illegible] ♀ large, ♀ [illegible]

[illegible] [illegible] ! 2♂♂, [illegible] ret 22-20

[illegible] [illegible] ♂♀

[illegible] [illegible] 2♂, 3♀♀ [illegible] [illegible] specimens { [illegible] ret 17 / 3♀♀ ret 19.

"[illegible] [illegible] [illegible] [illegible]"

[illegible] [illegible] ♀; ret 25.

[illegible] [illegible] ♂, ret 32, no [illegible] on [illegible] { [illegible] Stubbs Suggest [illegible] 24.7.1986 !

[illegible] ? ♀; ret 33.

[illegible] cf. [illegible] ♀, ret 17, but [illegible] very long – [illegible] ½ [illegible] !

[illegible] capito 2♂♂, ret [illegible]

[illegible] abdominalis ♀, [illegible], ret 23.

[illegible] [illegible] ♂

[illegible] [illegible] ♂; ret 17.

[illegible] [illegible] !

D. [illegible] ♀

[illegible] [illegible] ♂ = [illegible] [illegible] [illegible] ? ret 16.

Stratiomyid fly

[illegible]

Prov. ?, 12 : 5 mounted including [illegible]

[illegible] [illegible] ♀ [illegible] 1949.

14. 8. 46, cont. Brecknock dunes, Wly, cont.

Taken at 3. [illegible] [illegible] [illegible] 1949.[ ]

[illegible] [illegible] ret 1, ♂, [illegible] [illegible] [illegible] = [illegible] [illegible] ret 26.

[illegible] [illegible] ♀ 3 [illegible] = [illegible] [illegible] [illegible], ret 27.

[illegible] ♀ ♀, ret 33.

[illegible] " ♀, ret 23.

[illegible] [illegible] 2♂♂ = [illegible] group, [illegible], [illegible], ret 18-21

=

[illegible] 2♂♂, ret 25-26 =

[illegible] [illegible] ♂ ret [illegible]

[illegible] [illegible] 3♀♀ [illegible] [illegible]

[illegible] " ♀, ret 32

[illegible] ♂, ret [illegible], [illegible]

[illegible] [illegible] ♀, ret [illegible]

[illegible] [illegible] ? ♀, ret 39.

[illegible] ([illegible] [illegible] [illegible]) 2, ret [illegible]

[illegible] ♀ 295 (Sect. 1)

[illegible] " ♀ (Sect 2)

6 " 283 (Sect [illegible])

[illegible] 2♂♂, ret [illegible].

14.8.46, cont. Buckroney dunes, Wk., cont.

Taken at 3. cont.

[illegible] ♂, ant. 25.

A. ([illegible]) [illegible] ♀; ant. 17, [illegible]

Ephedrus [illegible] ♀, not std.

Praon volucre ♀; basal flagellar segment [illegible] ant. 21

Ephedrus [illegible] ♀, ant. 19

[illegible] 3♂♂ ant. 21

Braconids: 6 not std. = [illegible]

Cynipid 1 not std.

Taken at 4. (Lagurus?) [23 mm [illegible] labelled 17.10.1946.]

[illegible] 3 not std. = Hemiteles ♀ ♂, ant. 19&20, small dark sp.

Leptomorpha [illegible] ♂, ant. 24. [illegible] [illegible]

[illegible] clavata ♀; ant. 22

[illegible] ♀, ant. 33, not [illegible]

Bracon n. epitriptus var.? ♀ ant. 26; smooth propodeum, var. with dark legs?

[illegible] pallipes? ♀; very pale stigma; rugose propodeum, " "

[illegible] medianus? [illegible] ♂, ant. [illegible] [illegible]

Opius [illegible] var. ♀, ant. 24; [illegible] 2 [illegible]-aciculate.

14.8.46, cont. Buckroney dunes, Co. Wk., cont.

Taken at 4. cont.

[illegible] [illegible] ♀, not std.

[illegible] (Gymnoma?) [illegible] 10, [illegible] [illegible]

[illegible] [illegible] [illegible]

= D. (G.) [illegible] 10, 15 (ant 31&30). D. (G.) [illegible] ♀; [illegible]

D. (G.) [illegible] 3♂♂ ant. 25, 26&26; [illegible]

D. (G.) [illegible] 1 [illegible] ♂, ant. 27; 1 very fine ♂, ant. 29,

1 very fine ♀, ant. [illegible] + 24; 1 small ♀, ant. 24, [illegible]

Braconids: 5 [illegible] : 4 [illegible] – all [illegible]

Cynipid. 1 not std.

21st Aug. 1946. Co. Kild., sunny afternoon, with soothing breeze, good warm day of late, after a fine morning & previous day & night — Almost raining, a few small drops & mist rain in evening after 6 P.M.

In afternoon drove to Grand Canal at Landenstown, Co. KD., arriving at 5 P.M. & collected in four areas & left for home at 7.5 P.M.; home 7.50. Collection as follows by sweeping:—

1 = N. & W. edges of oats in field S. of plantation 1/4 mile E of Landenstown Ho.
2 = Marsh & ditches [illegible] at E end of grazing field S. of Landenstown Ho. & W of station 1 & 3.
3 = W & N. edges of oat-barley field, & drain along S. edge of plantation, between [illegible] & No. 1.
4 = S. margin of Grand Canal; reeds, [illegible], Bogbean, Typha, Glyceria, Mint, &c &c between Landenstown lock & plantation E of same.

21.8.46, cont. Landenstown, Co. KD., cont.

Tabanid at 1. [39 mounted from [illegible] labelled [illegible]]
Crabro [illegible] 1 [illegible] distinguendus 1 [illegible]
Ichneumon sp. ♂ : not std.
I. sp. ♀ : not std.
Cryptinid ♀: 2 mounted = Hemiteles ♀, not 31
Hemiteles, small, black & red, ? not 19 =
Acrodactyla degener ♀, not 32
Lissonota [illegible] sp. [illegible] black [illegible], not std.
Ctenichneumon 2 ♂♂, not coll 30 =

Tryphon ceratophorus 1 ♂, not 34
[illegible] [illegible] 1 [illegible]; not std.
Homocidus signatus ♀, pallipes ♀, [illegible] ♂, black [illegible], not taken.
Mesoleius sp. ♀, small, bright [illegible]; not 38
Do. spp. ♂ large, & ♂ smaller not std.
Campoplegids 2. not std.
Ichneumonid ♀, not 17, black sp =
Leptopygus [illegible] ♂.

Bracon [illegible] ♂, large, not 21, [illegible]
B. [illegible] 3 ♂, [illegible] sp., not 33
Chelonus [illegible] ♀. not std.

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31 e 40, cont. Landerstown Co. K.D. cont.

Taken at 1, cont

Blacus rufescens ♀, ent. 20., rather dark specimen

Coelinius lucidator ♂, ent. 25.

Dacnusa [illegible] 3♂♂, ent. all 21.

D. [illegible] 2♂♂; not ent. [illegible] 24 [illegible]

Opius [illegible] ^not ent.^ ♀ & 5 other specimens all ent. =

O. [illegible] 4♂♂ (ent. 21, 21, 20 & 22), 3♀♀ (ent. 21, 20 & 22), [illegible]

O. [illegible] ♀, ent. 27

[illegible] ♂, ent. 35.

[illegible] ♂ : not ent.

Tanycarpa [illegible] ♂, ent 23.

Pentapleura pumilio 6♀♀ none ent.

Aspilota aff. 5, 4 ent. = [illegible] smaller ent. 20. G. [illegible] ♀, ent. 15.

G. [illegible] 1 smaller ♀, ent. 16, but [illegible] smooth. G. [illegible] small ♀, ent. 12

G. (S. [illegible]) ♂, ent. 23.

Dacnusa areolaris [illegible] common, mostly ♀♀. none ent.

D. [illegible] ♀. not ent.

D. [illegible] ♂, ent. 23.

D. [illegible] ♀ not ent.

D. [illegible] ♂, ent 31.

D. [illegible] ♀, ent. 32.

[illegible] n. sp. Stelfox? ♂, ent. both [illegible] off

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31 e 40, cont. Landerstown, K.D., cont.

Bracon [illegible] ♀ ^not dark [illegible]^ [illegible] ♀ ent.

[illegible] aff. [illegible]. none ent.

[illegible] & [illegible] & [illegible] 1 ♀ [illegible] ent. =

Taken at 2. [35 [illegible] from [illegible] labelled 28 10 49.]

[illegible]

[illegible]

Blacus [illegible] ♂ ♀ none ent.

[illegible] ♀

[illegible] aff. ?

[illegible] ♂♂

[illegible] ♀

Bracon [illegible] ♀, ent. 19/7.

Rogas 3♂♂ 1♀ = [illegible] ♀, ent. 27, = [illegible] 2♂♂, ent. 20 & 21 [illegible]

[illegible] ♂ ? [illegible] dark [illegible]

Aspilota falcata 2♀♀ : not ent.

[illegible] 1 ♀, pale var., ent. 32

[illegible] ♀. not ent.

21.5.46, cont. Landerstown, K.D., cont.

Taken at 2 cont.

[illegible] rufipes? 5♂♂, 2♀♀

B. [illegible] 2♂♂.

[illegible] [illegible] not, cat. 22, [illegible] abdomen [illegible]

= C. [illegible] [illegible]. C. pumila ♀, cat 24

C. sp [illegible] ? cat 29, [illegible]

[illegible] [illegible] ♂, [illegible], [illegible] pale legs & the

last [illegible] not, cat 25.

[illegible] [illegible] ♂, cat. 28

[illegible] [illegible] C. [illegible] 3♀♀, cat. 17, 19 & 21 - 23

C. [illegible] ♂ cat 22. C. [illegible] ♀, cat 15. C. [illegible] ♀, cat. 1[illegible]

C. picticornis ? ♂ cat. 19. C. rubripes ♀, cat. 15. C. [illegible] ♀, cat 16

C. (Syrphidis) sp ? 2♀♀, cat. 17 & 18.

D. [illegible] [illegible] [illegible] none [illegible]

D. [illegible] ♂ not [illegible].

D. [illegible] not [illegible]

D. [illegible] ♂, cat 22.

D. aptera ♂, cat. 26
D. aptera ♀, cat. 23 } Both with rather pale legs — almost all reddish

D. [illegible] ♂, cat 28.

D. [illegible] 3 = [illegible] 2♀♀ [illegible], cat [illegible] 24.

21.5.46, cont. Landerstown, K.D., cont.

Taken at 2 cont.

Chorisops [illegible] [illegible], [illegible] [illegible]

[illegible] [illegible] [illegible], others not [illegible]

[illegible] [illegible] ♀ not [illegible]

[illegible] abundant, [illegible].

[illegible] & [illegible] none [illegible].

Diptera 1 =

Taken at 3. [21 [illegible] from 3 & then labelled 22.10.49!]

[illegible] ♂ not [illegible].

[illegible] [illegible] [illegible] [illegible] not [illegible].

[illegible] ♂ not [illegible].

[illegible] [illegible] [illegible] fasciata ♀, [illegible] ?

Stylonyptus [illegible] Thom. 1♂ (cat. 28), 1♀ (cat 21) [illegible] perfectly

Glypta annulata ♂ not [illegible]

Lissonota [illegible] ♂ not [illegible]

Schizopyga [illegible] ♂♂, cat 24

21 S. [illegible], cont. — [illegible], C. KD, cont.

Taken at 3, cont.

Polysphincta [illegible] ♂ ext 27.

[illegible] [illegible] 2 [illegible] 1 ♂ [illegible] 1 ext 26.

[illegible] ? ♀ ♂, ext 27

[illegible] [illegible] (3") [illegible] of [illegible] (♂), ext 32.

[illegible] [illegible]" ♀, [illegible] [illegible], ext 35, [illegible]

[illegible] Campoplex [illegible] 5: 3♀♀ not etd, ext 29–30 =

Polyblastus [illegible] [illegible] [illegible]: not etd.

[illegible] of 2 not etd.

[illegible] ♀ –

Bracon [illegible] ♀ B. [illegible] ♂, [illegible], ext 3[illegible] [illegible]

[illegible] [illegible] ♀ not etd

[illegible] [illegible] ♀, ext 26

[illegible] of "[illegible]" ♂, ext 42

[illegible] of [illegible], [illegible] ♂, ext 20

[illegible] [illegible] ♀, ext 24.

[illegible] [illegible] ♀, not etd

Opius [illegible]? ♀ ext 23.

[illegible] [illegible] ? [illegible] [illegible] [illegible]
the other mounted, ext 19.

22 S. [illegible], cont. — [illegible], C. KD, cont.

Taken at 5, cont.

[illegible] [illegible] [illegible] [illegible] [illegible] ♂, ext 33

[illegible] ♀ ♂, ext 31

[illegible] ♀ ♂, [illegible], ext [illegible] "[illegible]"

[illegible] [illegible] [illegible] [illegible] of [illegible] the following, not etd. –

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] of [illegible] [illegible] ext 3[illegible]

[illegible] [illegible] [illegible] [illegible] ext 32

[illegible] [illegible] ♀, ext 21

[illegible]: 1 [illegible] ♀; none etd.

2 [illegible]. 4 etd, including 1 [illegible] =

[illegible] } none etd
[illegible] }

[illegible] [illegible] [illegible]? ♀ on [illegible]

10

21.8.46, cont. [illegible], KD., cont.

Taken at 4" [as [illegible] labelled 22.10.49.]

Bryophila [illegible]: none std.

Promethes sulcator ♂, not std.

Homocidus [illegible] ♀, ent 21, very fine specimen!

[illegible] 2 spp. & one other [illegible]; none std.

[illegible] "small ♀, ent 17, "near [illegible]"

Xenarcha lustrator ♀, ent 32, very nice specimen.

[illegible] [illegible] : 2 ♀♀.

Macrocentrus [illegible] ♂♂ & ♀; ent 27(♂) & 23(♀), rather small

species [illegible] ♂ & ♀ from other specimens.

= O. brevis [illegible] ♀, ent 23   O. irregularis 1♂, 1♀, ent 36 & 34

O. [illegible] ♀, ent 22.

Alysia [illegible] var. [illegible]. One ♀, ent 24.

Pentapleura pumilio 2♂♂, 2♀♀ [illegible], large [illegible], ent 26

P. [illegible] ♂ : not std.

Phaenocarpa [illegible] ♂ (= [illegible]) ♂ {Sent to [illegible] Illinois, U.S.A. 7.10.1946.

Aspilota ♀ = [illegible] : very fine ♀, ent 20.

A. ([illegible]) ♀ ♀, ent 23

Dacnusa [illegible], [illegible] ([illegible]) & areolaris ?

D. [illegible] ♀, ent 21. {2 small ♂♂ of [illegible] std, [illegible] ent 22

{D. laevipectus 1 ♂, ent 23.

71

21.8.46, cont. [illegible], KD., cont.

Taken at 4", cont.

[illegible] [illegible] ♀♀, ♂, [illegible]

D. [illegible]

D. [illegible] ♀, ent 22

D. sp. [illegible], very small, [illegible], ent 36

D. ([illegible]) of [illegible] ♂ (ent 22), ♀ (ent 24), [illegible]

D. (G.) [illegible]

D. (G.) [illegible] ♂, ent 27.

[illegible] small ♀, [illegible] ent 25

[illegible] [illegible] several ♂♂ & ♀♀, [illegible]

[illegible] developed [illegible] 1, 2♀♀ std., ent 28 & 30

Aeon ♀, [illegible], [illegible]

[illegible] spp. [illegible] (♀ std (ent 17) = [illegible]

[illegible] [illegible] : ♀♀, not std

[illegible] : none std

[illegible] : one ♀ [illegible] std.

=

Donacia ♀, all std (2 spp.)

=

Sawflies ♀ = [illegible] of [illegible] ♂

[illegible] of [illegible] ♂

23.8.46 Hemiteles

[illegible] 1 ♀, ent 15

taken in motor house

44 Glenville Rd

[illegible]

24.8.46 [illegible]

♂ ent 24

taken in house

44 Glenville Rd

[illegible]

28th Aug. 1946. Landenstown, Co. K.D. (Sallins). Fine. Beautiful calm & sunny, with heavy dew, & a lovely morning, an East wind got up about 9.30 AM & a few formed cumulus with heavy rain between 11 AM & 1 P.M., though blue sky seen to N. & W. all the time. Fine all day. Took afternoon off & drove in car to Landenstown arriving there at 3.15 & found no rain had fallen S.W. of Rathcoole & very hot sun & gentle S. breeze at Landenstown on arrival; but this soon gave way to strong cold SE wind & rain clouds, but no rain fell up till the time we left at 6.30 P.M.

Swept in four areas as follows: —

1 = Swampy drain, dry, in field S.W. of plantation 1/2 mile E. of Landenstown House & track on Grand Canal (= station 2 of 21st Aug. 1946).
2 = Edges of oat, hay & wheat fields S. of plantation & E. of station 1.
3 = Plantation & ditches S & W of same.
4 = S. bank of canal between plantation & lock at Landenstown Ho. & a few swept S. of road at same place.

28.8.46, cont. Landenstown, K.D., cont.

Taken at 1. [illegible]]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

13 [illegible] ♀ [illegible]

13 [illegible] ♀, [illegible]

74

28.8.46, cont. [illegible], K.D., cont

Taken at 1 cont

Calyptra [illegible] ♀, ent. 22.

Macrocentrus [illegible] ♂, ent. 37.

[illegible] ♀ [illegible]

Opius [illegible] ♀, ent. 22. & 4 other spp.

O. [illegible] ♀ [illegible]; O. [illegible] ♀ [illegible]

O. [illegible] ♀, ent. 23. O. [illegible] ♀, ent. 22. O. [illegible] ent. 24.

[illegible] 3 ♀♀ ; ent. [illegible]

[illegible] 4 (♂♂ + ♀♀) [illegible]

[illegible] contracta ♀ [illegible]. [illegible] ♀, ent. 24.

[illegible] atra ♀, [illegible], ent. 24.

[illegible] lge ♀ ; ent. 24.

[illegible] 10 ♂♂, 7 ♀♀ including [illegible] ♀♂, ent. 14 & 22

[illegible] ♀, ent. 19. [illegible] ♀, ent. 15 [illegible] ent. 22

[illegible] 2 ♂ ♀, ent. 19(1), 21(3), 22(1), 23(3). [illegible] ♀, ent. 17

[illegible] ent. 15.

[illegible] ♂♂, ent. 18 ; [illegible] ent. 21.

[illegible] ♀, ent. 19 ; [illegible] ent. 21.

75

28.8.46, cont. [illegible], C. K.D., cont

Taken at 1, cont.

[illegible] [illegible], [illegible], [illegible]

& [illegible] all [illegible] & the [illegible]

D. [illegible] ♀, ent. 27.

D. [illegible]

D. [illegible] ♀, ent. 21 D. [illegible] ♀, ent. 21 [illegible]

D. [illegible] ♀, ent. 22 & 27.

D. [illegible] ♂, ent. 32

D. [illegible] ent. 25, [illegible]

D. ([illegible]) [illegible] 3, not [illegible]

D. (♀) [illegible] 3 ♂♂ [illegible] ent. 25, [illegible]

D. (♀) [illegible] 1 ♀, ent. 23

[illegible] ent. 22

[illegible] 5, 6 [illegible]

[illegible] } abundant ; 9 ntd including [illegible] Hal. ♀
Chalcids } " 2 ntd
[illegible] } " 1 ntd.

76.

28.8.46, cont. Landerstown, N.D., cont.

Taken at 1 cont.

Taken at 2. [30 mounted from 20 then labelled 4.11.49.]

[illegible] [illegible] ; not std.

[illegible] ? : not std. =

Hemiteles ? ♀, ent. 30.

Pezomachus ? winged ♂, ent. 23

[illegible] [illegible] ♂ : not std.

[illegible] [illegible] ♂ not std. [illegible] [illegible] ♀, ent. 48.

[illegible] [illegible] ♂ & ♀ : not std.

[illegible] [illegible] 5 : none std.

Bombus agrorum ♀ watched [illegible] 1945 [illegible]

[illegible] 2 on old bleached ♀♀ [illegible] on 27.8.46 : none std.

[illegible] [illegible] ♂ : not std.

Bracon [illegible] ♀ : not std.

B. [illegible] [illegible] ♀ not std.

77

28.8.46, cont. Landerstown, N.D., cont.

Taken at 2, cont.

[illegible] [illegible] ♀.

[illegible] [illegible], ♂♂, ent. 41. Var. [illegible] ?

[illegible] sp. ♀ : [illegible]

Agathis [illegible], ♀, ent. 25

[illegible] [illegible] 2 ♀♀ : not std.

[illegible] [illegible] 2 ♂♂ : not std.

Pentapleura [illegible] 3 ♂♂ 1 ♀ : not std.

Aphaereta [illegible] ♂ : not std.

[illegible] [illegible] ♀, ent. 19

[illegible] ♀, [illegible]. C. [illegible] ♀, ent. 30.

C. [illegible] ♂, ent. 24. C. [illegible] ♀, ent. 17

C. [illegible] small ♂, ent. 19 [illegible]

Orthostigma [illegible] ♂, ent. 19

Dacnusa areolaris, maculipes, [illegible], [illegible]

D. maculipes ♂ with [illegible] & [illegible] ent. 23

D. [illegible] (Hal.) Marsh ♀, ent. 29.

D. [illegible] Nixon ? ♀, ent. 35.

D. sp. [illegible] ♀ (?) [illegible], [illegible] ent. 31

D. [illegible] Nixon ? [illegible] ent. 21 [illegible] 4.11.49.

D. [illegible], not std.

78

28.8.46 cont. [illegible], G K D, cont.

Taken at 2, cont.

[illegible] [illegible] ♀, not 20.

Aphidius 2 spp. 2 atts. =

C. [illegible] Marshall, 1 nice ♀, not 18, agrees perfectly with M's description!

C. [illegible] [illegible]? 1 small ♀, not 15; very nice, clearly coloured specimen!

Proctos: frequent: 6 atts

Chalcids & Cynipids common; none atts.

Homopt.!

Diptera + [illegible] [illegible] few 30th

Sawfly 1 = [illegible] [illegible] ♀

Taken at 3.

[illegible] [illegible] ♂♀: not atts

[illegible] ♂ ♀, common at 3?

[illegible] [illegible] 4 ♀♀ not atts.

B. [illegible] 1♂ not atts.

Opius [illegible] ♂♂ not atts

O. [illegible] ♂♂ not atts.

[illegible] [illegible] ♂♂ not atts.

[illegible] [illegible] ♀, nice, typical specimen, not 18

79

Taken at 3, cont.

[illegible] [illegible], [illegible] & [illegible] : 1 pair [illegible].

D. aphidum 4 (♂ & ♀) none atts.!

D. aphidum 2 & [illegible] female [illegible], not 22, [illegible] pair.

D. [illegible] ♀, large, not 21

Aphidius spp. 2: none atts.

Proctos: } 1 Proct. [illegible] atts =
Chalcids } 2 spec.
Cynipids }

Taken at 4.

Cryptinids 6: 2 atts =

[illegible] ♂ : single, red, ♂, not 21

" ? ♂ ? winged ♂, not 24.

Campoplegids 3: not atts.

[illegible] 1 ♂: not atts

[illegible] [illegible] ♀

80

28.8.46, cont: — Landenstown, K.D., cont:
Taken at ss, cont:
Xenarcha lustrator ♂, not 22
Sigalphus caudatus 2♀♀: not std.
Macrocentrus thoracicus ♀, not 42; [illegible]
Opius caesus ♂: not std.
O. pallipes ♂, not 22
Pentapleura pumilio 1♂, 2♀♀ not std.
Phaenocarpa [illegible] ♂♂: not std.
Dacnusa pubescens, areolaris, laevipectus
& [illegible] non std.
D. elegantula 2♀♀; not 20.
D. [illegible] ♀ taken on edge of canal at reed bed,
& nice ♀, [illegible] not 22 & 23 separated.
Chaenon anceps 1 fine ♀, not 56.
Aphidius spp 3: not std.
Praon: 2: not std.

81

8th Sept. 1946. [illegible] with heavy showers [illegible] as [illegible] forecast. As rain [illegible] in night, we set out for Leinster Bridge on Royal Canal, Co. K.D., at 3 P.M. Quite hot & damp, but stiffly wind [illegible] from north & then [illegible] to N.W. & rain before we got to Clondalkin. However we ran through it & it was not raining, when we reached the canal, though everything dripping. Went straight to Mr Mitchell's plantation (from bank above Leinster Bridge where left car!) & tried sweeping driest spots, but heavy showers were soon at everything.

Nevertheless [illegible] filled [illegible] in plantation. Then a stiff breeze blew [illegible] over from West & we had a [illegible] & after the [illegible] sweeping edge of the plot, but [illegible] showers finished this. Had collected very [illegible] apples & then walked E. down canal to 3rd field W. of Leinster Bridge — the grass mainly is cut & already cut, but extreme W end in [illegible], [illegible] & a platform of weeds [illegible] in season of 1946, [illegible] sweeping weeds &c, but [illegible] along hedge [illegible] wet & soon had to give in [illegible] net full of water.

8.9.46, cont. — , Royal Canal, K.D.
Swept in 3 areas, as follows:—
1 = roadside wetted plantation ½ mile W. of Louisa Bridge
2 = along tow path near & W. of station 1.
3 = among tall weeds, [illegible] & [illegible], & especially grassy edge along hedge of [illegible] field between canal & Maynooth road W. of Louisa Bridge.

Taken at 1.
Platylabus? sp.? ♀, nat. [illegible]
Phygadeuon [illegible]? ♀, nat. 13.
[illegible] [illegible] nat. [illegible].
Cryptinae, a short 30, mostly ♂♂? [illegible]
Hemiteles [illegible] or H. [illegible]? : about 15 spp. —
H. [illegible]? ♀, nat. 18. H. sp. ♀, nat. 20. H. sp. ♀, nat. 23.
Phygadeuon [illegible], small ♀, nat. 30 & Pezomachus sp. [illegible]
Pezomachus sp. 3 ♂♂, wingless, nat. 17, 18, & 22 — Phygadeuon sp. ♀, nat. 17.
P. sp. ♀, nat. 20 P. sp. ♀, nat. 18.
[illegible] of [illegible] 1♂, nat. [illegible]
[illegible] [illegible] ♀, nat. 33
[illegible] [illegible]? ♀ nat. [illegible]
[illegible] [illegible] nat. [illegible]
[No [illegible], no [illegible] & no [illegible], &c.]

8.9.46, cont. R. Canal, K.D., cont.
Taken at 1, cont.
Apanteles [illegible] ♀. [illegible] [illegible] ♀, nat. 32.
Blacus ruficornis 4 ♂♂ 1♀, nat. 18.
B. [illegible] ♀, nat. 17. B. [illegible] ♂, nat. 17.
Opius [illegible] 1 ♂, nat. 21.
O. [illegible], ♀, nat. 27.
O. [illegible] 3 ♀♀, nat. 22, 24 & 26.
Pentapleura [illegible] 1♀, nat. 26.
Alysia [illegible] 1♀, nat. 26.
Phaenocarpa livida, large ♂, nat. 33.
Aphaereta [illegible] ♀, nat. 21.
Aspilota sp. 10 ♂♂, 6 ♀♀, [illegible] [illegible] nat. 22-23.
A. [illegible] 1♂ & [illegible] ♀, nat. 16 & 17. A. [illegible] 1♂, nat. 31.
A. [illegible] 1♀, nat. 17, small. A. [illegible] ♂, [illegible], nat. 21, [illegible]
A. [illegible] 2 ♂, nat. 23. A. [illegible] ♀, [illegible], nat. 19, short
A. sp. ♂, nat. 23. A. sp. ♂, nat. 24. A. [illegible] ♂, nat. 19, [illegible]
A. [illegible] ♂, nat. 20. A. [illegible] ♂ ?, [illegible] ♀, nat. 15
A. (S.) [illegible]? ♂, nat. 21. A. (S.) sp. ♂, nat. 23 & another ♂, nat. 24, [illegible]
Dacnusa [illegible] 1♀ only — [illegible]
D. [illegible] 1♀
D. [illegible] 3 ♀♀
D. [illegible] 1♀
[illegible]

No Aphidiidae [illegible]!

84

8.9.46, cont. Royal Canal, K.D., cont.
Taken at 1, cont.:
Psocids. very common, about 25 : [illegible] =

Chalcids very common also : sent to B. S. [illegible]
about 20 : 7 std. – [illegible] [illegible]

Cynipids 3 : none std.

Taken at 2. (11 mounted from 2 & those labelled 14.11.9.46!)

Cryptinae 4 : 1 std = Hemiteles [illegible] [illegible]

Empis [illegible] [illegible] : [illegible]
E. [illegible] [illegible] std.
[illegible] = Symydrax [illegible] ! [illegible]
[illegible] [illegible] ♀ not std.
[illegible] ♂ at 8 =

85

8.9.46, cont. R. Canal, K.D., cont.
Taken at 2, cont.
Blacus [illegible] ♂, [illegible]
Microctonus [illegible] ♀, [illegible]
Aspilota (Synaldis) 1♂, 2♀♀ = (B) [illegible] ♀, [illegible]
A (S.) [illegible] ♂, [illegible]
A (S.) [illegible] ♂, [illegible]
Dacnusa [illegible] 2♀♀, [illegible]
Da. [illegible] ♀ [illegible]

[No Aphidiids, [illegible]]
Psocids 2 : [illegible]
Chalcids about 6 : [illegible] =

Taken or seen at 3.
Bombus sylvarum 1 fresh ♀, seen 3 times
B. lucorum ☿☿ & 1 fresh ♀ at [illegible]
B. agrorum several.

Cryptinae 8 : 5 std. = Hemiteles [illegible] ♀ at 24.
Phygadeuon [illegible]
Phygadeuon [illegible] [illegible]

8.9.46, cont. Royal Canal, K.D., cont.

Taken at 2, cont.

Pimpla turionellae 1 small ♀.

Glypta sp. ♂, not 32. G. [illegible] ♀, not 36 [illegible]

Bassus annulatus ♀, not 17

[illegible] [illegible] 2 ♀♀; not [illegible]

Stenomacrus sp. (new sp.?) ♀, not 20

[illegible] [illegible] 2 (1 ♂, 1 ♀) not [illegible]

Bracon anthracinus 1 ♀, not [illegible]

[illegible] braconius 2 ♂♂, not [illegible]

Macrocentrus [illegible] ♀, not 45

[illegible] [illegible] 5 ♀♀.

D. [illegible] 1 ♀; + D. [illegible] 2 ♀♀; none [illegible]

Pentapleura pumilio 2 ♀♀; not [illegible]

Phaenocarpa ruficeps 1 ♂; not [illegible]

Orthostigma 1 ♀, very small, not [illegible]

Aspilota & Synaldis 11; none [illegible]

8.9.46, cont. R. Canal, K.D., cont.

Taken at 2, cont.

Dacnusa pubescens ♀♀ abundant amongst [illegible], 1 [illegible] ♂, also a couple of very small ♀♀ with semi-[illegible] abdomen & antennae presumably freshly emerged specimens of this! [illegible]

D. laevipectus 1 ♂, 3 ♀♀ [illegible]

D. [illegible] 1, not 11. D. elegantula 1 ♀, not [illegible]

D. tenuicula ♂, not 25 {[illegible] present} {apparently [illegible]!} D. [illegible] 1, not 23.

D. leptogaster ♂, not [illegible]

D. [illegible] = Dacnusa [illegible], 1 ♀ [illegible] 2, not 22.

[Once more no Aphidiids! [illegible]!!]

Proctos 6; none [illegible]

Chalcids about 6; none [illegible]

Cynipids 3; none [illegible] [illegible]

8.9.46 Hemiteles? ♀ [illegible], not [illegible], [illegible] tergite 2, 2nd seg [illegible], ♀ = taken in motor house, 40 Clareville Rd., Harold's Cross, Dublin

11th Sept. 1946. The best day for a long time, with rising glass & dying S.W. breeze; [illegible] away in afternoon; [illegible] the plenty of sun both over.

Drove in afternoon to Ballymahaily Bridge & Grand Canal, & walked up canal to Gollierstown Bridge; in till 6.30 P.M.

Stuff in three areas, as follows:—

1 = Edge of canal along tow path, especially the two "lie-bys", & edge of pond [illegible] Ballymahaily, all between Lock & Gollierstown.

2 = Ponds, &c. S. of canal & just W. of Gollierstown Bridge: 1st & 2nd ponds.

3 = Third pond, just W. of station 2 & S. of Canal.

All Co. Dublin.

Many Halictus spp. ♂♂ stuff & seen, few ♀♀.

Very few Bombus seen & mostly [illegible] & lucorum.

Aculeates taken at 1. [23 old & then labelled 21.11.1947]

Bethylus fuscicornis: not old

[illegible] [illegible] [illegible] on flowers of Mentha aquatica

2♂♂ [illegible] 1 not old

Sphecodes [illegible] ♀, not 32.

11.9.46, cont. Gollierstown, Co. Dublin, cont.

Taken at 1, cont.

[illegible] ♀ [illegible] = [illegible] [illegible]

[illegible] [illegible] not 26

[illegible] [illegible]

[illegible] [illegible] ♂, [illegible]

[illegible] [illegible] ♂

[illegible] 2 [illegible] 3♀♀.

[illegible] 2.

Bracon [illegible] ♀, [illegible] small [illegible]

[illegible] [illegible] ♀.

[illegible] [illegible] ♀.

[illegible] [illegible] [illegible] not old

[illegible] [illegible] ♀ not old

[illegible] [illegible] ♂. not old

[illegible] [illegible] ♀; not old

Pentaplevra [illegible] ♂ & 5♀♀: not old

P. [illegible] 10♂: not old

[illegible] [illegible] ♀ not old

[illegible] [illegible] 10♂ ♀.

D. [illegible] ♀, not 26.

90

11.9.46, cont. Gotherington, D.V., cont.

Taken at 1, cont.

A. [illegible] 1♂, 3♀♀ = [illegible]

[illegible]

[illegible] ♀, ent. 16. A (S) [illegible] ♀, ent. [illegible]

Dusona [illegible], [illegible], [illegible] &
[illegible] (1♂) all rather rare. None ent.

D. [illegible] 1♂ not ent.

D. [illegible] 1♂, 4♀♀

D. discolor? ♀, ent. 22; [illegible] [illegible], [illegible]!

D. [illegible] group, ♂, ent. [illegible] 32 =

D. ([illegible]) sp. [illegible] affinis, ♀, ent. 22, [illegible]

D. ([illegible]) affinis 1♂, 4♀♀: not ent.

D. (G.) [illegible] ♂: not ent.

D. (G.) [illegible] ♂, ent. 25; very nice specimen!

[illegible] 1♂, [illegible], ent. 24, [illegible]!

[illegible] ♀, ent. 21.

[illegible] 2♀♀: not ent.

[illegible] 2. not ent.

[illegible] spp. 2. not ent.

[illegible] ♀ [illegible]
[illegible] (Ent. 4-[illegible])

91

11.9.46, cont. Gotherington, D.V., cont.

[illegible]

[illegible] 2. [illegible]

[illegible] 2.

Taken at 2. [18 mounted [illegible] 22.11.46.]

[illegible] ♂ not ent.

Cryptinae 3: not ent.

[illegible] ♀, ent. 24, [illegible] very small & [illegible] form!

[illegible] ♂, not ent.

[illegible] ♂, ent. 27.

[illegible] ♂, [illegible]

= [illegible] ([illegible]) [illegible] ♂, ent. 25, [illegible]!

[illegible] ♀, ent. 33

[illegible] ♂ = ♀, fits Thomson's description [illegible]

[illegible] ♀: not ent.

O. [illegible] ♀, ent. [illegible]

O. [illegible] 2♂♂, ent. [illegible] 26. O. [illegible] ♀, small, [illegible], ent. 22.

[illegible] ♂, ent. 24.

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11.9.46, cont. — [illegible], DV, cont.

Taken at 2 cont.

Pentapleura pumilio 2 ♂♂: not std.

Alloea contracta: [illegible] ♀ not std

Phaenocarpa conspurcata ♂. not std

Dacnusa areolaris, [illegible], [illegible]

& elegantula [illegible]: none std.

D. [illegible] ♂, not 28.

D. [illegible] ♀ not 28, [illegible]

Aspilota [illegible] ♀ not 39

G (Gyrocampa) [illegible]

D. (Gyrocampa) affinis ♀ not std

Chaenusa conjungens 2 ♀♀: not std

Monoctonus [illegible] 2 ♂♂, not std

Trioxys sp. ♂: not std

Aphidius sp. 3 ♂♀ not std

Proctos 5: 2 std. =

Chalcids 10, not std.

Cynipids 3 not std.

[illegible] Aphidiinae [illegible] ([illegible])

Hemipteron =

93

11.9.46, cont. — [illegible], DV, cont.

Taken at 3. [[illegible]]

[illegible] 2. [illegible] [illegible] [illegible] 3, [illegible]

[illegible] ♀: not std.

[illegible] 2 ♀♀: not std

[illegible] [illegible] ♀ [illegible]: not std

[illegible] ♂: not std

[illegible] ♀: not std

Macrocentrus ♀, not 33

Opius [illegible] 3 ♀♀: not std

O. [illegible] ♂, not 36

[illegible] ~~[illegible]~~ [illegible] ♀, not 21.

Pentapleura pumilio 3, & P. angustula 10 ♂ [illegible] std

Phaenocarpa [illegible] ♂: not std

P. [illegible] ♂: not kept

Dacnusa areolaris 2 ♀♀: not std

D. (Gyrocampa) affinis ♂♂ & ♀♀ [illegible]: none std.

D. (G.) [illegible] 1 ♀, 2 ♂♂: not std.

D. (G.) [illegible] 3 ♂♂, not 25, 26 & 26

D. (G.) [illegible] [illegible] not [illegible] 26

Chaenusa conjungens 2 ♂♂, 3 ♀♀: none std

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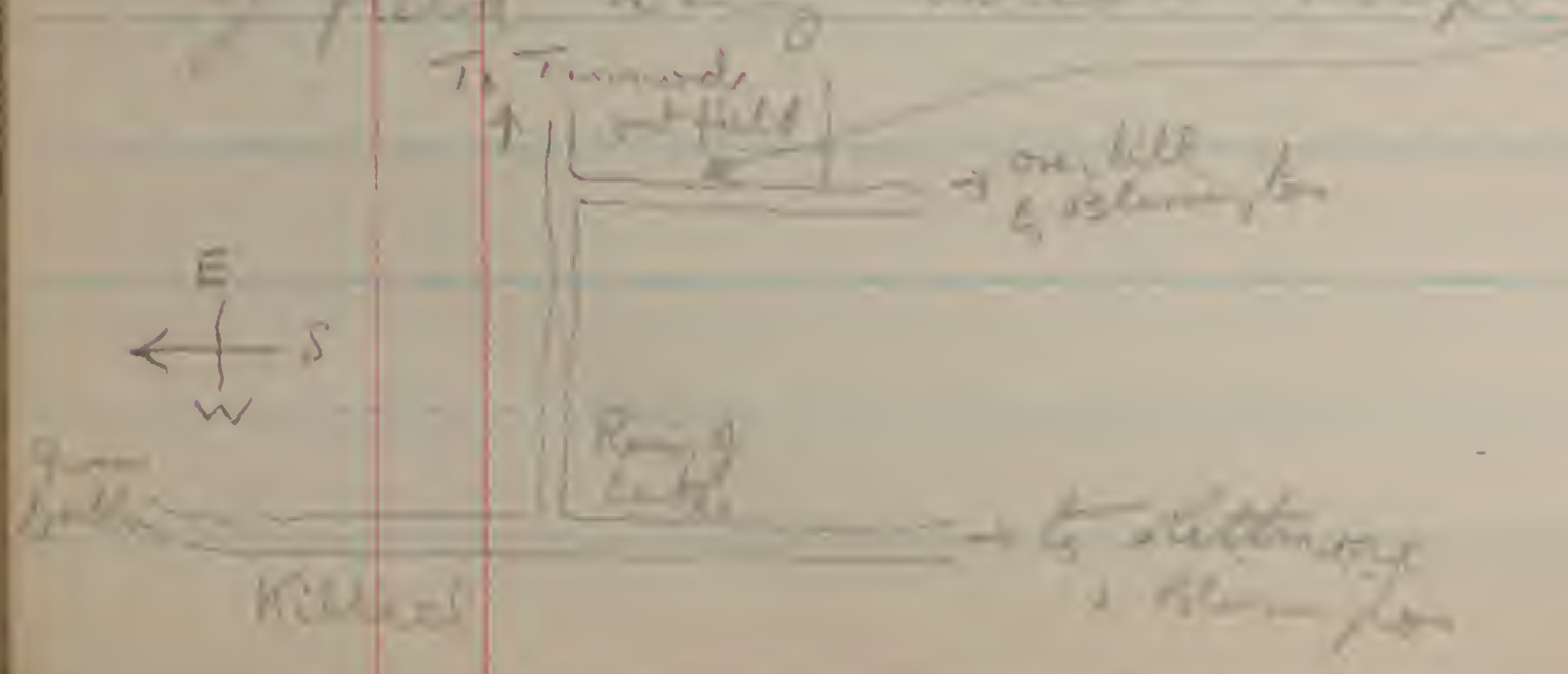
11.9.46, contd. [illegible], [illegible], contd.
[illegible] [illegible] contd.
[illegible] [illegible] 2 ♂♂, [illegible]
[illegible] [illegible] 4 [illegible]

[illegible] [illegible] ♀

Chalcids none ntd

15th Sept 1946. Overcast very windy day (W.) with showers, but still very warm in forenoon & all along, in afternoon [illegible] [illegible], wind dropped in evening.
In afternoon drove to Kilteel, Co. Kildare, & swept N & W side of cornfield & lane, in same place as on 27th April 1946. Very windy, cold & poor in shelter [illegible] [illegible] after a [illegible] showers, but along shelter of hedge & trees on W side of field [illegible] [illegible] swept.


To Turnings
oat field
to [illegible] hill & Blessington
E
S
W
Kilteel
to [illegible] & Blessington

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15.9.46, contd. Oat field ½ mile E. of Kilteel, Co. Kildare.
[illegible] [illegible] ♀, ent 32; also a ♂, with dark legs, ♂, ent 33; 3 some of
[illegible] [illegible] ♀, ent 33.
[illegible] of [illegible] [illegible] ♂ ♀, ent 33.
Cryptinae [illegible] (2 [illegible]).
[illegible] [illegible] ♀, ent. 20.
[illegible] [illegible] ♂, [illegible], ♂, ent 36 =

[illegible] [illegible] ♀ ♂: not ntd
[illegible] [illegible] ♀.
[illegible] [illegible] ♂, yellow [illegible] none; not ntd.
[illegible] [illegible] ♀, - ent 32 [illegible]
[illegible] [illegible] ♂ not ntd.
[illegible] [illegible] ♀ not ntd.
[illegible] [illegible] ♀ = [illegible] ent 31.
[illegible] of [illegible] ♀, ent 31.
Lathrolestes [illegible] ♀ ♂, ent 32.
[illegible] [illegible] none ntd.
[illegible] [illegible] ♀, ent. 27.
[illegible] [illegible] ♂♂ & ♀♀ none ntd.
[illegible] 2 ♂♂, 2 ♀♀. 1 ♂ (ent. 36), 2 ♀♀ (ent. 32 & 34) ntd. =
[illegible] [illegible] ♂ & ♀, ent 33 & 32
[illegible] [illegible] ♀, ent 32.

18.9.46, contd. Killart Co. K.D., contd.

[illegible] [illegible] ♂, ant. [illegible]

[illegible] lateralis ♀ A. pallipes ♀

[illegible] ♂

[illegible] [illegible] 3♂♂, ♀ [illegible] [illegible] {The ♀ only mtd.! ant. 20-[illegible]}

[illegible] [illegible] ♀, ant. 20.

[illegible] [illegible] ♂; not mtd

[illegible] [illegible] ♂, not mtd. 2♀♀, not mtd. [illegible]

[illegible] [illegible] ♀, ant. 25. [illegible] [illegible] ♂, ant. 26

[illegible] [illegible] ♀, ant. 22

P. [illegible] 2♀♀; not mtd. [illegible] ♀: not mtd.

P. fuliginosa: very large ♀, ant. 26.

Phaenocarpa livida large ♂, ant. 32

[illegible] 3♂♂, 11♀♀, mtd. G. [illegible] ♀, ant. 14

G. [illegible] 2♀♀, ant. 18 & 19 G. [illegible] large ♀, ant. 17. G. [illegible] ♀, ant. [illegible]

G. tumida ♀, ant 17 G. [illegible] [illegible] ♂, ♀, not mtd. G. [illegible] [illegible]

G. [illegible] ♀, ant. 15

G. (Synaldis) [illegible] ♀, ant. 17. G. (S.) [illegible] ♂, ant. [illegible]

G. (S.) [illegible] ♀, ant. 16.

Dacnusa [illegible] ♂, D. [illegible] [illegible] ♀ [illegible] not mtd

D. [illegible] 2♂♂, ♀ not mtd

D. [illegible] ♂ not mtd. D. [illegible] ♀, not mtd.

D. [illegible] ♂ not mtd. D. [illegible] 2♂♂, 4♀♀: not mtd.

18.9.46 cont. Killart, K.D., cont.

Dacnusa sp. [illegible] ♂, ant. 33.

Aphidius spp. 1♂ 1♀.

Proctos abundant.

Chalcids common. } none mtd.

Cynipids 2.

19th Sept. 1946 (Thursday).

Drove to Shannon Bog, North of [illegible], Co. Kildare, with Rev. K. McDunlop, in his car, the [illegible] being to get larvae of [illegible] in which I was not successful in the [illegible]. Left [illegible] at 11 a.m. & reached the Shannon Bog at about 12.45.

A dull day with drizzle from 2 P.M. but the [illegible] [illegible] stop collecting till 3.30 P.M. [illegible] [illegible] set in & we had [illegible] & the [illegible] [illegible] via Kildare, reaching [illegible] 6 P.M. [illegible]. Collected for about 2 hours in [illegible] of [illegible] [illegible] just [illegible] about 1 mile N. of [illegible] on west edge of the great Shannon Bog.

[107 mounted & then labelled 5-6-9-Dec.-1947!]

19.9.46, cont. Skerrie Bay, Co. K.D.

Bombus agrorum & muscorum [illegible]

Psithyrus barbutellus ♂ [illegible]

Vespula rufa ♂ [illegible]

Halictus calceatus ♂ [illegible]

Bethylus cephalotes ♀ [illegible]

Ichneumonidae (Vol. 1), 10 ♀ all mounted: [illegible] [illegible] →

[illegible] [illegible] ♂, ant. 29, [illegible] ♀, ant. [illegible]

Platylabus pedatorius, [illegible] ♂ 30 ♂ ([illegible]), [illegible]

Platylabus [illegible] ♀, [illegible] ; ant. 37.

Phaeogenes [illegible] ♀, ant. 24.

Ph. sp. rusticatus Wesm.? ♂, ant. 28; [illegible] abdomen.

Cryptinae 14 [illegible] = [illegible] [illegible] ♀, ant. 19.

[illegible] ♀, ant. 20. Leptocryptus sp. ♀, ant. 27.

Leptocryptus sp. smaller, ant. 24.

Phygadeuon? sp. ♀, ant. [illegible] 16–17

Hemiteles sp. ♀, ant. 22. H. sp. ♀, ant. 20.

H. sp. ♂, ant. 17. Hemiteles [illegible] ♀, ant. [illegible]

Pimpla [illegible] ♀, ant. 24. [illegible]

[illegible] ? 2 ♀♀, ant. both 22; [illegible] dark orange-brown & not [illegible] pale [illegible] on its back.

19.9.46, cont. Skerrie Bay, K.D., cont.

P. [illegible] ? 2 ♀♀, [illegible] ant. 29 [illegible]
[illegible]

P. elegans ♂, ant. [illegible]

Polysphincta [illegible] ♀, ant. 22, [illegible]

P. sp. [illegible] P. sp. ♂, ant. [illegible]

P. sp. ♀, ant. 24. P. [illegible] ♀, ♂ [illegible], [illegible]

Phytodietus sp. 2 ♀♀, ant. both [illegible]

Bassus dorsalis? 2 ♀♀, ant. both 23. Bassus [illegible] ♂, ant. 20

Homocidus pectoralis 2? ♂, ant. 22.

H. [illegible]? 2 ♂♂, ant. [illegible], ♀, ant. 24, dark [illegible]

[illegible] [illegible] ♀, ant. 16

Stenomacrus [illegible]? 6 ♂♂, ant. [illegible], 24, 23, 24, 22, 27, [illegible]

Orthocentrus sp. [illegible]? 2 ♂♂ (2 ♀♀), ant. ♂♂ 18, ♀♀ 27 & 30.
[illegible]

Tryphon sp. [illegible]? (♀?), ant. 34.

Chorinaeus sp. [illegible]? 1 (♀?) small, [illegible], ant. 25.

Chorinaeus sp. [illegible], ant. [illegible] [illegible] sp.? ♂ (?), black, ant. 29

[illegible]? sp. = [illegible] ♀, [illegible]
[illegible], ♂; ant. [illegible]

[illegible]? sp.? ♂, ant. 31.

[illegible] sp.? ♀, with short [illegible], black, ant. 21 =

Aclastognathus [illegible] ♀, ant. 14. [illegible] sp. ♂, ant. 20

[illegible] 3 ♂♂ = [illegible]? 2 ♂♂, ant. 22 & 23.

[illegible] sp.? ♂, ant. 22. =

[illegible] 2 ♀♀ = [illegible]? sp.? ant. 33 & [illegible]

=

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19 Sept. '46, contd. [illegible] Bay, Co. [illegible], contd.

Bracon [illegible] of obscurator 2♀♀, ant. both 20.

[illegible] m. ♀, ant. 32 "[illegible]" [illegible]

Orthostigma [illegible] laeviusculus (8 ant. 24); 2♀♀ (ant. both 24) [illegible] ♀, ant. 2.

Rogas [illegible] 2♀♀, ant. both [illegible]. [illegible]

[illegible] ♀, ant. both off. Tergite 2 [illegible]

[illegible] of [illegible] var. [illegible] 2♂♂, 2♀♀, ant. ♂♂ 26 & 27, of ♀♀ both 21.

[illegible] of pallipes ♀.

[illegible] ♀ with tergite 3 almost smooth?

Blacus [illegible] 2♀♀, ant. both 20.

B. [illegible] ♀, ant. 17, [illegible]

[illegible] 2♀♀, ant. both 24, tergite [illegible]

Tanycarpa [illegible] 1♀, ant. 24.

Tanycarpa [illegible] ant. 28 & 29.

[No other Alysiids & no Dacnusa seen.]

Bracon [illegible] 1♂, 2♀♀, ant. 20(♂) (♀ 20 & 21).

Proctos: 11 sp.; all std. =

Chalcids [illegible]: none std.

[illegible] 3: 1 std. =

[illegible] one mounted to others given to E. [illegible]

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23rd Sept. 1946. [illegible] with [illegible] till [illegible], when [illegible] began to drop & rain cleared off & fine evening.

Drove in afternoon through the Scalp & Enniskerry to Powerscourt Church, then turned left on to Bray road & stopped & collected for half an hour in ditch [illegible] under trees & hedge [illegible]. Labelled "Enniskerry, Co. Wl."

Sweeps [illegible] on old road from Enniskerry to Bray ½ mile E. of Enniskerry Church, 3.30 till 4.0 P.M. [36 mounted & [illegible] labelled [illegible]]

[illegible] ♀ ant. 20. [illegible] 2♀♀ ant. 18, 23 & two other [illegible] (♂, ♀) [illegible]

Stenomacrus [illegible] 2♂♂, ♀ [illegible] ant. [illegible]

Lathrolestes marginatus ♀, ant. 37.

Polyblastus [illegible] ♂, ant. 28, not std., black form =

[illegible] ♀, not std., ant. 44.

Colastes braconius 2♀♀, not std.

Blacus [illegible] 2♂♂, ant. both 19.

Opius victor Hal. ♀, ant. 33. O. [illegible] Hal. ♀, ant. 35. = [illegible]

O. [illegible] ♀, ant. 24, also 2 other ♀♀ [illegible] but apparently this species also; ant. both 24.

22.9.46, cont. Enniskerry, Co. Wl., cont.

Aspilota sp. 8 = Orthostigma [illegible] ♀, ant. 20, [illegible]

[illegible] ? 1♂, ant. 20, [illegible] ♀, ant. 19, [illegible]

A. clara [illegible] ♂, ant. 21.

[illegible] ? 2♂♂, ant. 16 & 17; 1♀, ant. 17.

A. (Synaldis) sp. [illegible] ♂, ant. 22.

Dacnusa areolaris, maculipes, [illegible],

[illegible] examined but not [illegible];

& seven other Dacnusae = D. adducta, [illegible] ♀, ant. 30.

D. [illegible] ♀, ant. 32 Dacnusa [illegible] ♂, 28 (not 24 + 25).

D. [illegible] sp., [illegible], ant. 24 =

D. [illegible] sp. [illegible], small ♂, ant. 21, [illegible]

Praon abjectum ♀

Trioxys testaceus mihi ♀ Paratype! See EMM May 1948.

Ephedrus [illegible] ♀, ant. 13

Proctos.: 15 : 5 not std. =

[illegible] ♀ : not std.

[illegible] 1 : not std.

[illegible] : not std. [illegible]

25.9.46 Hemiptera at [illegible] taken in [illegible] Harold [illegible] ♀, ant. 22 [illegible] Rd.

26th Sept. 1946. A fine day after two fine days, [illegible] with rain [illegible] in S.W. [illegible], [illegible] [illegible] rain, [illegible] slight [illegible]

Left home at 11.30 [illegible] [illegible] [illegible] [illegible] & drove [illegible] [illegible] Bay, Co. [illegible]

Collected by sweeping [illegible] from 1.30 till 4 P.M., after [illegible] at 1 A.M. [illegible] almost exactly same place [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] yards [illegible] [illegible] from [illegible] [illegible]. [illegible] [illegible] owing to high temperature & humidity, but [illegible] [illegible] [illegible] [illegible] [illegible] spoiled, or almost so, by [illegible]. Very few Braconids taken (probably owing to [illegible]) & the number of [illegible] [illegible] ([illegible]) rather [illegible]. [9 [illegible] labelled on 26.1.1947 [illegible] [illegible] 60 more [illegible] labelled on 10.12.49 [illegible]]

Kerrin[illegible] Bay, Co. [illegible] (as on 19.9.46)

Bombus [illegible] 1♀ (or ♂?) [illegible] the only Bumble[illegible].

Colletes succinctus ♀ [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] = [illegible] ♀, ant. 22 [illegible] = [illegible] ? [illegible] ? small ♀ with [illegible] short [illegible] face & clypeus, & yellow [illegible] base of 21-seg. antennae = [illegible]

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26.7.46, cont. Skomer Bog, KD, cont.

Ephydridae 16, but only 5 mounted =

Hemiteles sp. ♀, not old, [illegible], cut. 21

H. sp. ♀, not. 22 Phygadeuon sp. [illegible] 19.

Phygadeuon sp. [illegible] ♀, cut. 16.

[illegible] sp. [illegible] ♀ [illegible] ([illegible]) [illegible]

[illegible] 6 ♀♀ i.e. [illegible], cut [illegible]

[illegible] 7 ♀♀ of [illegible] [illegible] { [illegible] ♀ & [illegible] ♀ [illegible] [illegible] [illegible] [illegible] [illegible] }

[illegible] ♀ not old.

P. [illegible] ? ♂, cut 19.

[illegible] flavolineata 1 ♀, cut [illegible] = [illegible] [illegible]

[illegible] of [illegible] 3 ♂♂, 1 ♀, cut [illegible] ([illegible]) & [illegible]

[illegible] ♀, cut. 28. P. (2) [illegible] [illegible] ♀, [illegible]

[illegible] sp. 3 ♀♀, not cut.

Protarchus testaceus Hab. 1 ♀, cut 50

Homocidus pectoratorius ♀, small, not cut.

H. pallipes 2 ♂♂, cut 22 H. [illegible] ♂, cut 22.

Orthocentrus [illegible] 2 5 ♂♂, 3 ♀♀, cut [illegible]

Stenomacrus of [illegible], 4 ♂♂, 3 ♀♀ (cut. 26-27 & 23-24 resp.) [illegible] ♀, cut 20
[illegible] [illegible]

[illegible] of [illegible] 1, cut 38 [illegible] 19♀.

[illegible] 6 [illegible] ♂, cut 26 & ♀, cut [illegible], [illegible] =
[illegible]

[illegible] [illegible] 12, cut 20, 14, cut 28 [illegible] ♂ cut [illegible]

[illegible] ♀, [illegible], [illegible] { Labelled 26.1.1947

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26.7.46, cont. Skomer Bog, KD, cont.

Stenomacrus [illegible] [illegible] 3 ♀♀, cut all 26 } Labelled 23.1.1947

[illegible] [illegible] 1 ♀.

[illegible] [illegible] [illegible] [illegible] 1947

[illegible] 6 only [illegible] =

From larvae of Cimbex & Trichiosoma brought home in either the bag on 3.10. → taken on board [illegible] T.
emerged during June 1947, one ♀ Opheltes glaucopterus on 7.6.1947 (presumably from Cimbex larva) & 1 ♀ [illegible], [illegible], on 20.7.1947 (presumably from Trichiosoma larva). AWS

[illegible] [illegible] [illegible]

[illegible] 6 [illegible]

[illegible] 1 ♀, cut 17 =

Bracon [illegible] 2 ♀♀, cut 22 [illegible]

B. [illegible] 1 ♀, cut 17

B. of [illegible] 1 ♀, cut [illegible] [illegible] [illegible] [illegible] [illegible],

[illegible] [illegible] 1 ♀; also dried skin of larva of
[illegible] [illegible] [illegible] [illegible],
parasitized by Rogas testaceus Wesm. which em. June '47.

[illegible] [illegible] 1 ♀, cut. 22, [illegible] [illegible]

[illegible] [illegible] ♂, cut. 41

Hormius [illegible] ♂, cut. 21; post-petiole rather narrow ?

Macrocentrus abdominalis 3 [illegible] ♀♀, cut all 44

[illegible] [illegible] ♂ ♀♀, cut. 20(1) & 21(2).

26.9.46, cont. – Skerries Bog, N.D., cont.

Tiny [illegible] [illegible] 20th, ent. 24, 25 & [illegible]!

A [illegible] [illegible] ♀, ent. 12, [illegible] [illegible] [illegible]

A. [illegible] [illegible] ♀, ent. 12.

[illegible] [illegible] [illegible] ♀.

[illegible] [illegible]

Aphidiinae of previous ♀, ent. 18.

Proctos. 9 : not mtd.

Chalcid. 16 not mtd.

Cynipid. 2 not mtd.

[illegible] [illegible] [illegible] [illegible] [illegible]

Hemiptera – previous 'Lygus [illegible] [illegible]!'

29th Sept. 1946. A fine morning, but [illegible] [illegible] a [illegible] gale, followed by a warm, dull, gloomy afternoon & a gale dropped about 3 P.M. Had [illegible] [illegible] [illegible] [illegible]. Left home, in car, about 10.30 A.M. & drove to Ballybrittas, intending to go to Woodbank Ho., but car decided to stop at Ballybrittas for another repair to [illegible] petrol [illegible] in rear, so [illegible] [illegible] [illegible] & the [illegible] [illegible], but thought best not to go off main road, & so back to Monasterevan & the [illegible] along Portarlington road, there had lunch at 1 P.M. & collected afterwards for an hour among willows & birch scrub on cut away bog. Many Tabanus, including 5 [illegible], [illegible], [illegible] & [illegible] & [illegible] [illegible], & [illegible] a bog hole full of [illegible] [illegible].

Wind too strong but a few insects & some Lepidopterous larvae swept & latter subsequently given to N.S.D. Westropp.

Cut away bog, 1 mile W of Monasterevan, Co. K. 2.30 till 3.30 P.M. [[illegible] & then [illegible] 22.12.1946!]

Bombus [illegible] [illegible] [illegible] at Scabious [illegible] while having lunch [illegible] Bombus [illegible] [illegible].

Cratichneumon [illegible], ♀, ent. 24.

29.9.46, cont. Near Monasterevan, Q.C., cont.

[illegible] 6, including [illegible]

[illegible] ♀, ent. 19.

[illegible] ♀, ent. 20.

[illegible]

[illegible] ♂ [illegible]

[illegible] of [illegible], ent. 38 [illegible]

St. [illegible] ♂, ent. 33.

[illegible] of [illegible], ent. [illegible] 30.

Lathrobium [illegible]; 2♂♂, ent. 28 & 30.

[illegible] ♀, ent. 62 = [illegible]

[illegible] ♀, ent. 21. [illegible] ♀, ent. [illegible]

[illegible] ♂, ent. 20 =

[illegible]

[illegible] 3♀♀, [illegible]

[illegible]

[illegible] ? ♂, ent. 18 [illegible] ♀, ent. 21, [illegible]

[illegible] ♀, ent. 16.

[illegible] ♀ [illegible] D. [illegible] ♂ ent. [illegible]

D. [illegible] ♀♀ {ent. 23 [illegible]} D. [illegible], ♀, ent. 32.

[illegible]

[illegible] 5: 3 [illegible]

[illegible] 6: [illegible]

[illegible]

11.9.46, afternoon. Landenstown, Co. KD.

Along [illegible] Landenstown Ho., Co. Kildare, & collected in two areas [illegible], as follows: —

1 = Plantation & roadside drain S. of [illegible], [illegible] mile E. of [illegible] Landenstown Ho.

2 = [illegible] drain W. of field S. of plantation; i.e. drain parallel to canal & round field S. of canal.

Landenstown, Co. KD. 4.15 to 5.15 P.M.

Taken at 2.

[illegible] ♀, ent. 44.

[illegible]

[illegible] ♂, ent. [illegible]

[illegible]

[illegible] ♂ [illegible] ♂, ent. 36

[illegible] ♂, 2♀♀ [illegible]

[illegible] ♂, ♀, ent. 31 & 7 respectively =

[illegible] ♀ ♀ ent. [illegible]

[illegible] ♂ [illegible]

[illegible] 5: 3 [illegible] =

[illegible] 6: 1 [illegible] =

29.9.46, aft. Landenstown, C. K.D., cont.

Takempt 2.

Cryptophagidae 10: 5 std. = [illegible] [illegible] 1♂, std. 16; 1♀, std. 19.

[illegible] [illegible] ♀, std. 31.

[illegible] [illegible] ♀, std. 30.

[illegible] [illegible] [illegible] ♂, std. 22

[illegible] 1♀, [illegible], [illegible], std. 27.

[illegible] [illegible] [illegible] : not std.

[illegible] [illegible] 1♂, 2♀♀; & [illegible] [illegible] 3♀♀: none std.

[illegible] [illegible] [illegible], [illegible] : not std.

[illegible] [illegible], [illegible] ♀, std. 32

[illegible] [illegible] [illegible] 2♂♂; 2♀♀ : none std.

[illegible] [illegible] [illegible] not std.

[illegible] [illegible] [illegible], [illegible] ♀, [illegible], std. 14.

[illegible] [illegible], [illegible]; [illegible] 2♀♀ (std. 22), [illegible] std.

D. [illegible] ♀, [illegible], std. 30. D. elegantula ♀, std. 26.

D. [illegible] ♀, [illegible], std. 28.

D. ([illegible]) [illegible] 1♀, std. 40, [illegible] [illegible]

D. (L.) [illegible] 1♂, std. 26; 1♀, std. 26.

29.9.46, aft. cont. Landenstown, K.D.

Takempt 2, cont.

[illegible] [illegible] ♂, std. 24; [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] ♀, std. 19. [illegible] [illegible] std. 2.

[illegible] [illegible] ♀, std. 31, [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] 2♂♂, not std.

[illegible] [illegible] 5 : not std.

[illegible] 15 : not std.

[illegible] 8 : std. =

3rd October 1946. A fine day, with wind [illegible] very variable & no rain [illegible] [illegible].
Left here in Capt. H. M. Goodliffe's car at 12.30 & went over across to Skerries, Co. K.D., & stayed there till 6 P.M., having arrived at 12.40.
Collected in three areas, as follows —

1 = Birch & willow scrub at [illegible] Lower (1" ord map) 1½ miles N. of Kilberry.

2 = Scrub along between between station 1 & 3.

3 = Scrub on E. of railway 1 mile N. of Kilberry, in same place as I collected on 19th & 26th Sept. last.

3.10.46, cont. Skewen Bog, Co. KD., cont.

Taken at 1. [2 mtd first & then labelled 2.1.1950.

Stenomicra [illegible], black ♀, [illegible] wings [illegible] not mtd

Rhinoglossa [illegible] ♀ not mtd

Cryptinae 3, including Stilpnus [illegible] ♂, not mtd; Hemiteles ♀ mtd

not [illegible] minute ♀ = Hemiteles [illegible] ♀, mt. 17, [illegible]

& Hemiteles ♀ [illegible] ♂, mt 19.

[illegible] elegans ♀ not mtd

[illegible] of [illegible]: 3, mt 27, 29 & 30

Homocidus [illegible] & ♀♀ not mtd. [illegible] ♀.

Eclytus [illegible] 1♀, mt 29.

Orthocentrus [illegible] ♂, mt 29. One of [illegible], mt 22.

Stenomacrus [illegible] 2♂♂ & ♀, mt. 25 & 26 (♂♂), 24 (♀).

S. ventralis 1♀. not mtd.

S. sp. [illegible] small ♀, mt. 22.

Mesochorus ♂, not mtd.

Metacoelus [illegible] ♂, mt. 27.

Gnamptodon pumilio & small ♀, mt. 24, & large ♀, mt. 23, the latter [illegible] together.

Tanycarpa [illegible] ♀, mt 31.

Phaenocarpa [illegible] ♂ : not mtd

P. [illegible] ♀, mt. 28.

Alloea contracta ♀, not mtd.

3.10.46, cont. Skewen Bog, KD., cont.

Taken at 1, cont.

[illegible] ♀, mt 12.

[illegible] ♀, mt 13.

[illegible] ×3. 2 mtd.

Chalcids 2. not mtd.

[illegible] = [illegible] [illegible]!

[illegible]

Taken at 2. [2 mtd first & then labelled 4.1.50.]

Rhinoglossa [illegible] ♀ : not mtd

♀ mt 1 = [illegible] ♀, mt 25.

Cryptinae 6, including [illegible] 3♀♀;

4 mtd = Hemiteles ♀ [illegible] H. [illegible]

H. ♀ ♀, not mtd, mt 22.

[illegible] ♀, mt 20.

Aenodactyla degener? minute ♂, mt. only 12-segmented!

Orthocentrus protuberans ♀ mt. 31 & 3♂♂ of the [illegible] of which 2 mtd (mt 29 & 9).

& these seem similar to those taken here in Sept. & with 3♀ of [illegible], the latter [illegible]

Stenomacrus ventralis ♀ not mtd — Stenomacrus cont →

3.10.46, cont. Skerries Bog, KD, cont.

Taken at 2, cont.

Stenomacrus sp. 8 ♂♂, 2 ♀♀: 1 ♂ (at 20) & 2 ♀ (at 23 & 24) mtd.

= St. [illegible]?

Campoplegids 2 ♀♀.

Blacus ruficornis ♀.

Gnamptodon pumilio ♀.

Dinotrema [illegible] ♀, ent 26, [illegible] palps.

Opius [illegible] ♀, [illegible] sculpture, ent 22.

Tanycarpa rufinotata ♂, ent. 27.

Aspilota [illegible] ♂, ent. 21.

Dacnusa [illegible]? 1 (♂?), large, ent 33.

Ephedrus [illegible] 1 ♂, the first of the species taken in autumn to my knowledge, ent. 17. See [illegible], W1. (2) 9.9.1945.

Proctos. - 10: 1 mtd.

Chalcids 3 none mtd.

Cynipids 1 not mtd.

Homoptera 2 = [illegible] [illegible], 2 ♂♂ (fide M.W.R. de V.G.).

3.10.46, cont. Skerries Bog, KD, cont.

Taken at 3, [illegible] [illegible] [illegible] [illegible] [illegible] 1 or 2

[illegible] [illegible] [illegible] [illegible], i.e. 2 or [illegible] [illegible])

Stenobarichus [illegible] [illegible] ♀ [illegible] [G2 mtd from 3 & then labelled [illegible] 5.1.50 [illegible]]

P. [illegible] ♀, ent 32 [illegible] [illegible] [illegible] ♀: not mtd.

[illegible] ♀, [illegible] [illegible] [illegible] [illegible] = P. [illegible] 2 ♀, ent. 32.

[illegible] [illegible] 1 ♀, ent 24 & 2 other ♀♀ probably same sp.

Cryptinae about 28, [illegible] [illegible] [illegible] 3 [illegible]

4 mounted = Hemiteles bicolorinus group 4. [illegible] ♀, small, ent. 21

H. [illegible] ♀ [illegible] mtd, ent. 21. [illegible] [illegible] ♀, ent 24.

Pimpla [illegible] 2 ♀♀: 1 mtd.

P. [illegible] [illegible], [illegible] large ♀, ent 20 & 24 [illegible]

P. [illegible], small: small ♂: not mtd.

P. [illegible] 3 ♀♀: not mtd.

P. [illegible] 1 ♂; 1 ♀, ent 23 (♂) & 24 (large ♀).

P. [illegible] [illegible] ♂, ent. 20. [illegible] [illegible], [illegible] [illegible] [illegible] [illegible]

Polysphincta rufipes 1 small ♀, ent 23; & 1 v. large ♀, ent. 25.

P. tuberosa ♀, ent 28.

Schizopyga [illegible] [illegible] [illegible] ♀, ent 23.

Phytodietus sp. 2 ♀♀, same as on 19th Sept. not mtd.

Exochus sp.? 1 ♀, ent. only 14, [illegible] [illegible]

Chorinaeus [illegible] 2, same sp. as taken on 19th & 21st Sept. ent. 24 & 25

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3.10.46, cont. Skerries Bog, K.D. cont.

Taken at 3, cont.

[illegible] [illegible] 1♂ 3♀♀ [illegible], [illegible]

H. [illegible] ♀ [illegible]. H. pallipes ♀ [illegible]

Orthocentrus [illegible] 1♂, ent 26, 1♀, ent 27.

[illegible] [illegible] ♂♀ not std. St. of [illegible] ? 1♀, ent 42.

St. of [illegible] ♂♂ [illegible], ent 1, 2♂♂, 1♀ std. (ent 36 & 34); [illegible]

St. [illegible] ♀, ent 23, black. St. [illegible] ♀, ent 22. St. of [illegible] ♀, ent 20.

St. of pallipes 2♂♂, ent 32 & ?

M[illegible] 1♂, ent 34; 1♀, ent 35 } white banded hind tibiae = M. [illegible] ♂, [illegible], ent 34 = / ♀, [illegible], ent 33 =

Pristomerus [illegible] ♀

[illegible] [illegible] ♂ ♀ [illegible], [illegible] 1♀ [illegible], ent 29.

? [illegible] [illegible] 1♀, ent 28

[illegible]?? 2 black ♀♀, ent both 29 = [illegible] ?, as above.

Campoplegidea 4 ♀♀; not std.

[illegible] ? 1♂; not std

Mesochorus ♀ 1♂ 1♀ not std

[illegible] ♀ ?, ent 20.

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3.10.46. cont. Skerries Bog, K.D. cont.

Taken at 3. cont.

Bracon [illegible] ♀, small, [illegible], ent 24

[illegible] [illegible] ♀, ent [illegible]

Rogas [illegible] ♀, ent 22, [illegible]

Meteorus [illegible] ♂, ent 24.

Blacus [illegible] 1♂, 2♀♀. not std.

[illegible] 2♀♀ { black form, ent 41 & 42, [illegible]

Gnaptodon pumilio 2♀♀ not std.

Macrocentrus [illegible] ♀, same as on 28th Sept, not std.

Tanycarpa rufinotata 3♂♂, ent 36 & 38 & [illegible]; 1♀, ent 32.

[illegible] [illegible] 1♀ [illegible]; ent 17.

Chaenusa conjungens 1 small ♀ (ent 26). [2 large ♀♀ not std.]

[illegible] ([illegible]) [illegible] ♂, not std

Dacnusa [illegible] 1♂, 1♀. not std.

D. [illegible] 1; not std.

[illegible] [illegible] 2♀♀; not std

Ephedrus [illegible] 1♂, [illegible], ent 11.

Proctos - 15: 7 std =

Chalcids 3 - none std.

P T O →

118.

3.10.46, cont. Skerries Bog, K.D., coll. Larvae of Lepidoptera & Tenthredinidae very abundant & tried [illegible] & [illegible] by beating & by sweeping. Took the following: —

Lepidopterous larvae — pudibunda, Sallow Kitten, Acronycta leporina (? yellow haired Dagger)

Bees. Sphecodes hyalinatus ♂

Sawfly larvae: — [illegible] [illegible] on Birch, Trichiosoma
Also on Salix [illegible]

[From a larva on Salix brought home this day, 1 Ichneum., 1 ♂, ant. 25. Phygadeuon (?) emerged on 14.7.1947 =]

6th Oct. 1946. A fine day, dull for most part, mild, with gentle easterly breeze, after 3 fine days & a drizzly night. Cycled on bike at 11.30 A.M. to Gollierstown, on Grand Canal, Co. Dub., there arriving about 12.45. Collected by sweeping in the area, as follows —

1. Edges of canal just E. of Gollierstown Bridge & two grassy holes nearest bridge & E. of canal.
2. Edge of 3rd grassy hole S. of bridge & canal

---

19 nov. 1947

They are largely Achatinella- and all with locality data.

Our business policy may be briefly stated. It is simply that you must be pleased, or you may return anything you buy from us and your money will be refunded without question.

Postage While we expect our customers to pay the postage we seldom send packages C.O.D. nor bother to bill the postage. We will appreciate it if you will note the stamps on your package and reimburse us for them. We prefer to feel that we are fellow collectors rather than merchant and customer.

West Coast Collection To those interested in a representative collection of west coast shells we will send 100 different species for $15.00, or you may have 20 species for $2.00, and we will send sets of 2 specimens of each. They will be carefully classified to the latest nomenclature and accompanied by accurate and dependable locality data. All specimens will have been taken alive. You will get no beach worn bones from us.

Check List of West North American Marine Mollusks Every species from San Diego, California to the Polar Sea is listed. The distribution and other data is not given but the species are numbered to facilitate exchange or purchase by reference to the numbers without the necessity of listing the complete names. Some collectors regularly order additional copies to mark and send to foreign exchange correspondents. $1.00 per copy.

Our price list of all west coast species is based on the numbered check list mentioned above.

Microscopic Species Many genera and species of mollusks are fully adult when measuring but a few millimeters. The comparatively few students who know and study them through a microscope find them more perfectly formed and more beautiful than their giant cousins. In order to encourage more of our friends to take an interest in the very small we offer a series of 10 microscopic species classified for $1.50. Hundreds of others are listed in our check list.

Philippine Land Shells We continue to receive shipments of these beautiful showy shells, but unfortunately many of them in small lots that do not warrant listing in a catalogue. Most of them are in the genus Helicostyla and the best of them sell for around 50¢ each, some of the more abundant species for less. We will be pleased to send you a box of these shells all with careful locality data and you may return any duplicated or not wanted. Or better yet send us a list of what you have of them if any and we will submit others.

Tree Shells of Hawaii We have a large and very fine stock of these colorful shells which we can offer at prices from 10¢ to 25¢. A series will be sent on approval to those interested. They are largely Achatinella- and all with locality data.

[illegible] 19 Nov. 1947.

Row 1.

1.} ? [illegible] ([illegible] 14.4.37). ♂. [illegible] 30.8.26.
2.} ♂. [illegible] 6.7.33.

3.} ? bres. { ♀ [illegible] ME. 30.10.37. Cut 31/32
4.} { ♀ [illegible] 20.8.32. Cut 32.

5. [illegible] 33 [illegible] pond, ST. (2) 26.5.44.

6. ? [illegible] ♀ Glenasmole, DU. (5) 2.7.41.

7. " ? ♂ " " (2) 25.6.41.

Row 2.

1. ♂ ? ♀ Glenasmole, DU. (2) 2.7.42. Cut 28

2. ♂ ? ♀ " " " " Cut 31

3.} ♂ [illegible] { Moygaddy, ME. 16.7.42. Cut 27
[illegible] Phoenix Park, DU. (2) 23.7.42. Cut 32 + [illegible]
4.} [illegible] Cut 28
5.} [illegible] Royal Canal (1) KE. 14.6.42.

Row 3

Keep
1
2 } [illegible] dark var.? { N. Bull, DU.
3 } Nixon 14.1.47 { A.W.S. (3) 2.8.44
4

5. } The Island, DU. { (1) 10.6.43. Cut 28.
6. } { (1) 16.6.43. Cut 29.
7. } { (1) 22.7.43. Cut 28.

[illegible]

Hymenoptera records.

Ephedrus brevis ~~picticornis~~ ♂. St. Ives
Yorks. W. D. Hincks. 13. 5. '44.

Proterops nigripennis ♂
Cratloe, Co. CL. C. W. Allen. 6.8.44.

Bombus sylvarum. Corbally, Co. LK
C. W. Allen.

Arge cyanella: 2♂♂, 1♀. (Cratloe?) Co. CL.
C. W. Allen. 7.8.44.

Collected for me by R. C. Faris (of Cavan) when on holiday at Bundoran, Oct. 1946.

6 Oct. 46. Swept on shore of Lough Gill, at Doonee Rock, Co. Sl.
(at the spot where I took the type ♀ of Aspilota macrops on 15.10.1937,
Faris being also one of the party on that occasion! A.W.S. 7.2.1950).
Pezomachus sp. ♀, ant. 20. Stenomacrus minuta ♀, ant. 24.
Cymodusa leucocera ♀, ant. 26.

Aspilota petiolaris ♀, ant. 24. Type! S. & G. 8.2.1950. Possibly a var. of petiolaris
sp. n.?
A. cf. mammilata? 2♀♀, ant. 21–22. Not typical & possibly a closely allied sp.
A. cf. scimella ♀, ant. 20, tergite 1 & 2 red. Not typical!
A. dentifemur ♀, very fine specimen, ant. 19.

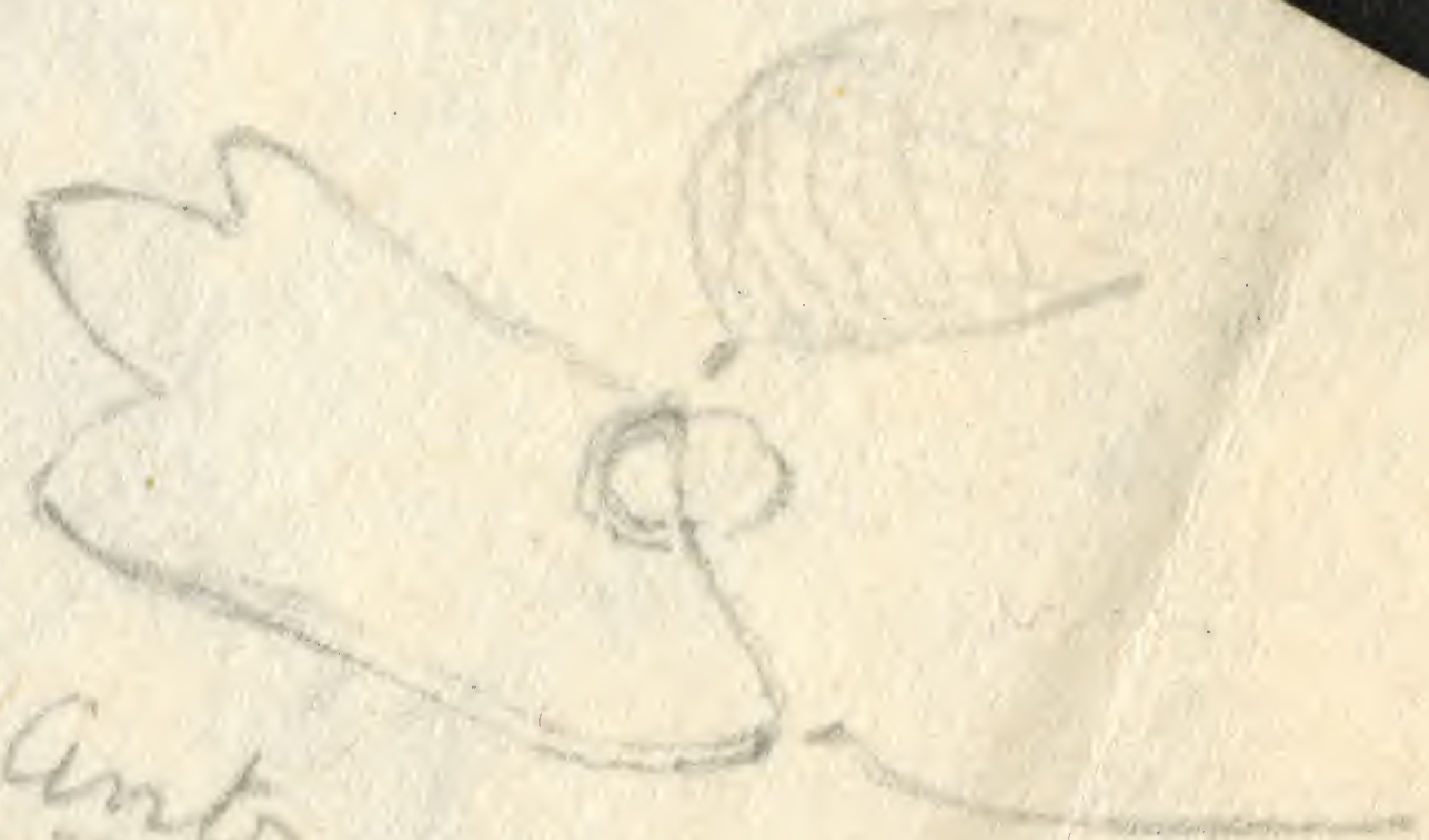
Proctos. 4, including 2♀♀ of an interesting looking species with small wings.

11 Oct. 46. In wood at Classie Bawn, Mullaghmore, Co. Sl.
(This locality is the plantation around the house & adjoining
(to the north of) Trawalua, where I have taken so much.
A.W.S. 1950)
Phaedroctonus armatoides ♀, ant. 38.

Stenomacrus affinis? ♀, ant. 21

Aspilota rufipennis? ♂, ant. 23

A. fuscicornis? ♀, ant. 17.



Antrusa sp. n. ?

3.10.46, cont. Skerries Bog, K.D., cont.
Larvae of Lepidoptera & Tenthredinidae very abundant on birch everywhere & [illegible] by beating & [illegible] by sweeping took the following: —
Lepidopterous larvae: — pudibunda, Sallow Kitten, Acronycta leporina (? yellow haired dagger)

Bee. Sphecodes hyalinatus ♂
Sawfly larvae: — Croesus septentrionalis, [illegible]
[illegible], [illegible]
Abia on Scabiosa succisa!
[From a larva on Salix brought home this day, I believe, a ♂, ant. 25. (Rhogogaster?) emerged on 14.7.1947 =]

6th Oct. 1946. A fine day, dull for most part, mild, with gentle easterly breeze, after 2 fine days & a drizzly night. Rode on bike at 11.30 AM. to Gollierstown, on Grand Canal, Co. Dub., there arriving about 12.45. Collected by sweeping in two areas, as follows —
1 Edges of canal just S. of Gollierstown Bridge & two grassy holes nearest bridge & S. of canal.
2 Edge of 3rd grassy hole S. of bridge & canal

6.10.46, cont. Gollierstown Bridge, Co. Dub.
Taken at 1. [19 mounted from 1 — [illegible]]
Cryptinids 12: 4 mounted = Hemiteles [illegible] ♀, ant. [illegible]
Hemiteles [illegible] [illegible] [illegible]
[illegible] [illegible]

Promethes sulcator ♂ [illegible]
Homocidus signatus ♀ & H. lineatus ♂, ant. 20
Stenomacrus [illegible] ♂ with [illegible], ant. 25.
Gonotypus melanostoma ♀ [illegible] ant. 25.

Syrphophilus [illegible] ♂, [illegible] Syrphophilus; ant. [illegible]
Opius exarator ♀ : ant. [illegible]
Pectoplaura pumilio, large ♂: ant. [illegible]
Alloxa contracta ♀: ant. [illegible]
Phaenocarpa conspurcator ♂♂ & ♀♀ common, the latter on compost: ant. [illegible]
Aspilota spp. 5, 4 all mounted, = A. dentifemur ♀, ant. 20 — very fine specimen
A. nigricornis ♂, ant. 21.
A. (Synaldis) [illegible] ♀, at topf 1, ant. 17.
A. (S.) [illegible] — ♂ ant. 22
A. (S.) [illegible] small ♂, ant. 18.

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6.10.46, cont. Gollinstown, Dev., cont.

Taken at 1, cont.

Dacnusa areolaris ♂ & ♀: not mtd
D. pubescens, 1 male ♂ not mtd
D. cyclops ♀ at 1st grazing [illegible]: not mtd
D. macrospila, 1 beautiful ♂ at edge of canal 10 yards from bridge & SW of same. mtd. 35.
D. striatula 1 ♀ mite on its back; mtd. 36.
D. sp.? ♂ mtd 34. perhaps new [illegible]!
D. (Gyrocampa) [illegible] ♀, mtd. 33.
Aphidius spp. 6: mostly ♂♂, none mtd

Proctos. 4: 2 mtd =

Chalcids 3: 1 mtd =
Cynipids 1: not mtd.

1 Blue Butterfly (icarus) ♂ ♀ seen resting on grass!

Taken at 2. [8 mounted from 2 & they labelled 24 to 30.]
Phaenocarpa cf. [illegible] ? ♀, mtd. 24.
[illegible] sp. 1, small, not [illegible], mtd 19.
Eucoilinae 2 not mtd.
Rhoptromeris dorsalis ♂: not mtd.

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6.10.46, cont. Gollinstown, Dev., cont.

Taken at 2, cont.
Stenomacrus spp. [illegible]

Blacus ruficornis ♀.
Opius caesus ♂
Aspilota nigricornis ♂, mtd. 31
A. [illegible] ♂, mtd 28, [illegible]
Dacnusa areolaris or small [illegible] ♀: not mtd
D. [illegible] 2 ♂♂ mtd [illegible].
D. [illegible] small ♀, with [illegible]! mtd. 25
D. [illegible] 2 ♀♀: not mtd.
Aphidius sp. ♂: not mtd

Proctos 2: 1 mtd
Chalcids 1: not mtd.
Cynipid 1 with [illegible] wings =

9th Oct 1946. A fine sunny morning & forenoon, [illegible] very strong E-NE [illegible] wind; afternoon [illegible] dull with lowering clouds [illegible] almost like ~~[illegible]~~ snow clouds! — & wind stronger than ever.

In afternoon drove via [illegible], [illegible] & Blessington to Glending [illegible] [illegible] [illegible] [illegible] in Glending [illegible] [illegible] & [illegible] [illegible] on Wicklow side in remains of old wood (or plantation!) on ash, oak, etc., but none taken on conifers. [illegible] [illegible] here 3.30 to 4.30, but midges very troublesome, so returned to marsh at NW end of the overflow channel, in Co. KD., & swept flooded edge of pond & drain under hedge N. of pond, 4.30 – 5 PM.

1 = Wood on Wicklow side of Glending

2 = Marsh, drain & field on Kildare side of Glending overflow channel 2 miles NW of Blessington.

([illegible] 30-1-1950)

9.10.46 (1). Glending wood, Co. Wi.

[illegible] [illegible] ♀, ent. 10.

[illegible] [illegible] ♀, ent. 24 & almost entirely testaceous!

9.10.46 (1) cont. Glending wood, Wi., cont.

[illegible] [illegible] ♀♀, [illegible] [illegible] [illegible] — 10 ♀♀

Hemiteles [illegible] [illegible] 6 ♀♀ ([illegible]) & [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] ♀ [illegible]

[illegible] [illegible] ♂ [illegible].

[illegible] [illegible] ♀ [illegible].

[illegible] [illegible] 2 ♀♀, ent. 21 & 22.

St. [illegible] 3 ♂♂, 6 ♀♀; no doubt abundant; [illegible]

[illegible] [illegible] ♂, ent. 28.

[illegible] [illegible] ♂ [illegible] [illegible], ent. 27.

"[illegible]" [illegible] 8 ♀♀ [illegible], ent. 17–36; no wonder!

[illegible] ♀, ent. 20 = sp.? of genus near [illegible], [illegible] ♀♀ [illegible].

[illegible] [illegible] 2 ♀♀, [illegible] 27 [illegible]. A very large & finely developed specimen!

[illegible] [illegible] ♂, [illegible] [illegible] [illegible]

[illegible] [illegible] ♀, ent. 31, very nice specimen!

[illegible] ♀ = G. [illegible] 2 ♀♀, ent. 23 & 24; [illegible]

G. [illegible] ♀, ent. 15, but propodeum [illegible] smoother than usual!

G. [illegible] 2 ♀, ent. 18.

G. sp.? ♀, ent. 17, [illegible]

G. [illegible] 2 ♂♂, ent. 16 & 17.

G. [illegible] ♀, ent. 16.

9.10.46 (1) cont. Glending wood, Co. Wi., cont.

Dacnusa laevipectus (or areolaris) the all ♀♀ [illegible]

D. [illegible] 9 ♀♀, one large ♂ & ♀; ret 22.

[illegible] very common, especially Platypalpus (?)

Syrphoctonus sp. ♀, long ovipositor: seen by G. E. J. Nixon: see his letter of [illegible].10.46.

= Cryptocentrus [illegible] 1950 = the fellow with the long [illegible] [illegible] 5

9.10.46 (2). Glending marsh, &c. Co. KD. [6 ret'd from 2.5.4? labelled [illegible] [illegible]]

Rogas [illegible] 1 [illegible] ♀. ret'd

Opius [illegible] 2♂♂, ♀. ret 22.

Alloea contracta 2♂♂, ♀. ret 22.

Phaenocarpa [illegible] ♀ taken in drain under bridge. ret'd.

Aspilota (Gnathon) sp. ♀, ret 17. Aspilota dentifemur ♀, ret 20.

Dacnusa areolaris (7♀), D. laevipectus (4♀), D. maculipes (1♂, 1♀) [illegible]

D. [illegible] (10♂, 2♀♀), D. [illegible] (2♀), D. [illegible] (4♀), ret 21.

D. aphantae (1♀), & D. sp. [illegible] Nixon, 1♀ labelled

& put in [illegible] [illegible]

Aphidius sp. 3♂♂.

13th Oct 1946. A fine but rather cloudy day with east wind, but cool [illegible] [illegible] walk. In afternoon drove to R. Canal & left car at lock ¾ mile W. of Louisa Bridge & walked back along canal where good [illegible]. Collected 2 [illegible] [illegible] the place: — Royal Canal, Co. KD.

1 = W. edge of 2nd field W. of Louisa Bridge & between canal & Maynooth road, bare weed, grass, [illegible], 4".

2 = side of tow path from station 1 to W. end of wall enclosed plantation, especially [illegible] as well & off [illegible] bushes, 5".

Royal Canal, Co. KD.

Taken at 1. [recorded from [illegible] labelled [illegible] 50]

[illegible] sp. 2♀♀, ret [illegible]

[illegible] ♀; ret 21.

[illegible] ♀, ret 24

[illegible] sp. ♂, ret 24 [illegible]

[illegible] sp. ♀, ret 19 Aspilota [illegible]

Dacnusa [illegible] ♂, [illegible] ret 21

[illegible] sp. ♂, ret 20

Alloea contracta ♀. ret'd.

Phaenocarpa [illegible] 1 large ♀ & 2 smaller ♀♀. ret'd.

13.10.46, cont. — Royal Canal, Co. KD.

Taken at 1, cont.

Aphrosylus [illegible] ♂, large, ent. 28

[illegible] [illegible] ♂, ent. 18

Dacnusa [illegible] 2 ♀♀, not std

D. [illegible] 1 ♀, & D. [illegible] 1 ♂, [illegible]

D. [illegible] 1 ♀, with pale legs, probably [illegible], [illegible]

D. [illegible] ♀, not std

Aphidius [illegible] ♂ & ♀, ent. [illegible]

Proctos 6, not std

Chalcids 9 including 2 ♂♂ 15.10 with large yellow [illegible] of which one mounted = [illegible] ?

Cynipids 1, not std.

Taken at 2. [9 mounted from 2 & then labelled 3.2.1950.]

[illegible] [illegible] ♀, not std

[illegible] ♂ ♀ ent. 33 [illegible] ♀, not std

Acrodactyla degener 1 ♀, not std.

Stenomacrus [illegible] 1 ♀, not std.

Exochus [illegible] ? (♂), ent. 26, face black!

13.10.46, cont. — R. Canal, KD, cont.

Taken at 2, cont.

[illegible] ♂ ♀, ent 21

Spathius [illegible] ♀, not std

Phaenocarpa [illegible] ♀, not std

Aspilota [illegible] ♂; ent [illegible]

A. (Synaldis) [illegible] ♂, ent. 20 [illegible] ♀, ent 17

Dacnusa stramineipes 1 ♂ & ♀, ent. 23

D. [illegible] ♀, ent. 25.

Proctos 4 + [illegible]

Chalcids 2 [illegible] with yellow ornamented head mounted =

16.10.46. [illegible] ♀ of [illegible] group, [illegible] from [illegible] [illegible] by [illegible] [illegible], Tallaght, 16.10.

16th Oct 1946. A dry dull day, mild, with [illegible] breeze [illegible], but practically none [illegible]. [illegible] afternoon down to [illegible], then [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] & back [illegible].

[illegible] a little [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].

[20 mounted & then labelled 3.2.1950.]

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16.10.46, contd. Glen [illegible], C. [illegible], contd.

[illegible] [illegible] ♂, ent. 37.

[illegible] & [illegible] ♀♀: [illegible] = [illegible] sp. [illegible]

Stenocorus [illegible] abundant, 2♂♂, 8♀♀ [illegible] not mtd.

St. sp.? 2♂♂, 2♀♀ = St. of [illegible] 1♂ (ent. 34), 1♀ (ent. 34).

St. of [illegible] 1♂, 1♀, ent. 21 & 20, respectively; [illegible] dark!

[illegible] [illegible] ♂, ent. 20

[illegible] ? [illegible], ent. 33

[illegible] ♀ ent. 32. [illegible]

Meteorus [illegible] ♀, ent. 22 — A. [illegible] ♂, ent. 18.

[illegible] [illegible] ♀ not mtd. — A. [illegible] ♂, ent. 18.

Phaenocarpa [illegible] ♀, ent. 27. — A. [illegible] ♀, ent. 33 [illegible]

Aspilota sp. 6: 4 mtd. = A. mamillata & 1 [illegible] ♀, ent. 28

Dacnusa [illegible], [illegible] & [illegible] ([illegible])

D. [illegible] ♀♀. not mtd. [illegible], small ♀, [illegible] ♀, ent 24

D. confinis [illegible] ♀, ent 23. D. [illegible], ent 32, large ♀.

Aphidius ♂ ♂. not mtd.

Proctos. 6: 2 mtd = [illegible] small ♀.

Chalcid ♂ }
[illegible] 1 } not mtd.

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16th to 31st October 1946.

[illegible] [illegible] dull [illegible] days [illegible] [illegible] [illegible] 27th. [illegible] anywhere but saw a Bombus agrorum in front garden at [illegible] on Sunday 27th & [illegible] Hymenoptera in back garden, [illegible], as follows:—

On 26th Oct. while working in garden found a ♀ [illegible] [illegible] on [illegible] [illegible] [illegible] by the [illegible].

And on 30th Oct. found a ♀ [illegible] [illegible] on a sheet on the clothes line [illegible].

2nd & 4th November 1946. A heat wave occurred suddenly on night of 2nd–3rd (following quite a cold spell with "melted snow" shown on 1st & 2nd, & a B.B.C. announcement that temperature on Hallowe'en in New York was 84°!). Many insects must have been out on these days, but I was on duty at Museum on 3rd (Sunday). During lunch on 2nd watched a Small Tortoiseshell Butterfly sunning itself on front lawn & on 4th at 1.45 a very fresh ♀ Bombus agrorum, with all black abdomen, sunning herself on wall of motor house in back garden.

Nov. & December 1946.

Mostly very wet weather & impossible for any natural history work as all my time occupied [illegible] rabbits on the land. No real cold spells, but several nights frost before the next spell of some nice clear sunny days.

Paul Helbig Jespersen came to stay for a week (from Copenhagen) to discuss Helix nemoralis & see my bred series of this snail, but proved more interested in getting himself an outfit of clothes, as the Danes had been very badly off for woollen goods, &c, during the war.

George came home on 23rd Dec. – "demobbed" from R.A.F. & stayed over Xmas before going north to a new, temporary, post under Northern Government in Belfast.

Potentilla progress at Templepatrick Bridge out about beginning of December (exact date not noted) the only nat. hist. event of this period.

1947.

NB. Exactly same Daffodil the following year the first flowered on 13th Jan. & the [illegible]

January

The year opened fairly mild with floods of rain, mostly [illegible] mild [illegible] with some mild days, during which Thrushes & Mistle Thrushes commenced to sing generally about 10th January, many singing. Our first Snowdrop in flower on 10th January, but others also under drains near [illegible] only just showing their noses above ground – probably due to Daisy having "disturbed" them in digging the plot in Oct. Crocuses all well up & one bud showing yellow in first week of January, but no further on on 10th. Daffodil & Hyacinth leaves showing in both front & back gardens. Daphne Mezereum in back garden almost in flower [but did not flower until April 15]

Many reports of Waxwings in N. Britain in December & a few from Ireland (Belfast, Sligo, Cork & Mayo) on 10th received a p.c. or note from Mrs M. E. Stokes 54 York Road, Kingstown saying that 6-7 had been in her garden for

On 23rd Jan [illegible]

January 1947, cont.

a couple of weeks & wanting to know what they were, her description being obvious. I phoned Very Rev. P. G. Kennedy, S.J., who came down that afternoon & in spite of gale & rain was soon feeding a heron in her garden.

23rd January 1947. G. J. Kerrich (Manchester Museum) came to-day to examine [illegible] & my collection of Ichneumons.

G. J. Kerrich returned to Manchester on night of Thursday 30th Jan.

1st-2nd February 1947. On the night of (1st-2nd Sat.) heavy snow fell in Dublin with a NE gale & in morning (Sunday) in our garden [illegible] 9 to 12 inches and drifts. About midday thaw began to set in & by evening was running rapidly, but heavy & most drains could not take them.

3rd Feb. Further snowing & by evening every place was blocked & by 4th traffic was [illegible].

7th Feb. Very cold, with little thaw still deep snow [illegible] Sunday, snow still lying in garden & on roofs about Harold's Cross.

After snow had melted in front garden on 5th

Feb. 1947 cont.

there was considerable snow on 6th for first time for a long period & at midday on 7th there was one yellow crocus by path to front gate in full bloom but not open in the cold. [illegible] the snow [illegible] & the melting of snow had acted as a [illegible] on the crocus, though others remained closed & it remained [illegible] as they had been before the snow.

Great damage done to my Mediterranean Heath plant, in [illegible] Rd., Rathmines & Scots Pine, etc. etc. in [illegible] all of which were broken down by weight of snow, which was at a [illegible].

9th Feb. Snow fell nearly all day but did not lie long & nearly all gone by midday on 8th, [illegible] was cold, with [illegible] about freezing point continued till 16th, when some rain during afternoon. Still [illegible] & snow [illegible] down to [illegible] of snow in garden & [illegible] of 2nd Feb. still plentiful in Harold's Cross & [illegible] Rathgar on 16th.

19th Feb. 47. Still cold, but brighter, & a very sunny day, with light snow shower in forenoon, but of no consequence. Walked to Dartry & up Dodder to Orwell Bridge, & home via Rathgar. When passing The Gables in Orwell Rd, saw one [illegible] Waxwing on tree of Cotoneaster frigida just inside avenue gate [illegible] & stopped to watch it at 5 yards range, then a second appeared, then a third & finally a 4th & 5th, & stayed there at our close range for 5 minutes [illegible] and some [illegible] in range of one bird.

The number of five suggests that they may be the same flock seen by [illegible], Father Kennedy, Mrs Molly Wigham & Mrs Rait Kerr, in Kenilworth Square a fortnight earlier.

20th – 28th February 1947. Very cold weather with snow & frost continued over British Isles & on Tuesday 25th the worst blizzard for many years occurred, with gale from SE. It lasted well into the night, leaving everything buried in 6 to 12 inches of snow & drifts all over. The remaining 26th – 28th were bright sunny days, with very hot sun & very hard frost at night. Wind N – NW – W & light to nil.

1st to 9th March 1947. Same bright frosty weather continued till evening of 9th, when SE gale & [illegible] snow [illegible] indicated approach of a general thaw. The yellow Crocus in front garden which was nearly open on 7th Feb. was the first thing to appear through the snow on 1st March & still in same condition as on 7th Feb. During the interval it had been three times covered by snow for [illegible] times & thawed out again. A second bud by this time joined it & a third showing by 9th. The Anemone appennina retained its [illegible] of [illegible] during the interval of being buried by snow. The Daphne Mezereum at front door, ready to flower at end of January, both very blasted by snow & frost & flowers not yet open. All plants of [illegible] still under mantle of snow on 9th. The plants of Wallflower with [illegible] through [illegible] [illegible] [illegible] and only one showing in the [illegible] (W).

10th March 1947. Weather broke on night of 9th–10th & rain steadily removed most of the snow.

11th – 12th March. Mild, with SE wind & again [illegible] & damp with snow & sleet on 12th — lighter & dry with [illegible]. The snow [illegible] now gone or almost so. A [illegible] Crocus (yellow) now out in front garden. Several [illegible] Snowdrops out under dining room window. The first [illegible] in some [illegible] flowered before [illegible] on 10th Jan., so that these have remained in cold storage [illegible] for two months.

13th & 14th March 1947. Cold weather with [illegible] intervals of rain & then continued until 15th in the forenoon of which snow fell heavily [illegible] [illegible] was the biggest [illegible] [illegible] in the [illegible] the [illegible] began [illegible] fell practically all night & the [illegible] [illegible] [illegible] on afternoon of 16th [illegible] [illegible] from S.W. & gale, about 50 [illegible] [illegible] Sunday [illegible]) the wind backed from E. to N. & then N.W. [illegible] [illegible] the [illegible] [illegible] [illegible] points in three hours → [illegible] 5 minutes after [illegible] here, about 5.15 P.M. & [illegible] Plovers [illegible] from N.W. [illegible] [illegible] [illegible] [illegible] all gone by 10 P.M.

17th [illegible] [illegible] [illegible] [illegible] [illegible] 18th [illegible] [illegible] Primroses [illegible] flowers [illegible] garden & yellow Saxifrage ([illegible]) [illegible] showing [illegible] of early Primrose.

15th. March 1947 – 24th March.

Swans on Grand Canal [illegible] [illegible] ([illegible] on grey [illegible] [illegible]), [illegible] on 16th. I did not [illegible] [illegible] [illegible] of 22nd. On same afternoon both swans at rest & beside them 1♂ & 2♀♀ Mallard. At 9.30 A.M. both swans up canal from east, & feeding [illegible] afterwards [illegible] bridge, while the three Mallard [illegible] the [illegible] [illegible] [illegible] [illegible] [illegible] the [illegible] swans disappeared when the boat arrived. The Mallard, [illegible] 5♂♂ & 5♀♀, [illegible] 10 [illegible] [illegible]. The [illegible] [illegible] Pigeons [illegible] canal [illegible], just above the [illegible]

23rd March 1947. A nice morning & after a very wet day on 22nd still growing but over, but much rain in afternoon & evening. Forsythia flowers started to open [illegible] in protected border. [illegible] of 22nd & finished [illegible] first [illegible] on 23rd. Chaenomeles in front garden now with many flowers, & the Fuchsia [illegible] nearly in flower. Saxifraga oppositifolia in Rock garden with a few flowers open this day, some of large flowered form & [illegible] leaf form on small [illegible] on [illegible] side of garden near Osmunda. Salix cinerea & flowering Currant buds rapidly growing & both will soon be in flower if fine weather continues.

26th March 1947. Afternoon took [illegible] & walked via [illegible] & Tyrone [illegible] to [illegible] & [illegible] to the [illegible] & home by the [illegible] & [illegible] Graham. Very [illegible] but found no insects or [illegible]. [illegible] along [illegible] field at Tyrone [illegible] by [illegible] except [illegible] the [illegible] of [illegible] Beetles & Spiders. [illegible] butterfly, [illegible] & Dandelion, no other flowers [illegible]

27th March 1947. [illegible] in [illegible] garden [illegible] in full flower & [illegible] the pink [illegible]. Leaf spider of [illegible] in back garden [illegible] & [illegible] preparation [illegible] & [illegible] & kept in [illegible] water [illegible]. Fine day [illegible] in afternoon & heavy rain at night.

29th March – 1st April 1947. [illegible] cold [illegible] & stormy weather. Snow commenced in early morning, [illegible] cold [illegible] & much of [illegible] on 1st April, [illegible] & [illegible] in garden.

2nd April 1947. A cold dry day, with [illegible] & [illegible] in afternoon gradually [illegible] after 2 PM. [illegible] by 3.5 bus to [illegible] Graham [illegible] to Ballinascorney Gap & back [illegible] 5 PM [illegible] Graham & [illegible] on the face of [illegible], where snow still lying in large patches, [illegible] fresh snow (probably equivalent to the rain in Dublin on 1st April) covered

2nd April 1947, cont.
the mouth of Glendhu Bt, Sachem & Kippers. Heard no migrants, though [illegible] at 5 p.m. should have induced a Chiffchaff to sing at [illegible] of [illegible] there, & no sign of [illegible] on the [illegible] at same place. Hazel catkins nearly over for most part, but no willows out at the road above Mr. Gorse[illegible], though [illegible] a mild warm spell would bring many out in a week time if that should come.

4th April 1947. A fine cold day with NW breeze & a [illegible] in the afternoon. Good Friday. In afternoon took bus to [illegible] at about 2.15 & walked to the mouth of the Glendhu [illegible] (The Pine Forest) & back to [illegible] through the wood & [illegible]. Large drifts of snow still [illegible] & by road side almost down to [illegible]. Glendhu not [illegible] changed since I came back up there — about two years ago. — & should expect nothing [illegible] in spite of the Forestry plantations of conifers on southern slopes above it,

5th April 1947. A day of gale & rain from SW clearing about 4 p.m., with [illegible] showers at [illegible]. Small Almond Tree at corner of Kenilworth Park & Whitford Rd. may be considered out — about nine weeks later than in previous years. Both almonds [illegible] out on Jan [illegible]. Tulipa [illegible] in back garden [illegible] & fresh [illegible] of flowers on all plants of Iris stylosa [illegible]. [illegible] flowers on Viola odorata in Berger garden & shoots appearing from three [illegible] plants of Polygonum [illegible] put in under [illegible] [For [illegible] 3 [illegible] Jan 1946.]

6th April 1947. A cold day but rainy [illegible] with slight whiffs of rain in late afternoon. Wind W & of gale force. In afternoon walked from Stn. bus to Greenhills & then by Tymon Castle to Firhouse & home, via Terenure.
Saw Viola odorata out in hedge N. of Tymon Castle & in hedge by stream watched a Chiffchaff for some time, but it would not call, in [illegible] the [illegible] spot [illegible] one [illegible] seen on 25th [illegible] 1945, but the latter [illegible] too [illegible] to record in [illegible] Early [illegible] back at the [illegible]. 7th April. Seen [illegible] probably [illegible] nothing!

8th and 9th April 1947. [illegible] on [illegible] frost; temperature fell there on night of 6th & probably more on 7th (Easter Monday) night. On afternoon of 8th April, saw a ♀ Bombus lucorum in front garden, [illegible]. On 9th at 1.30 PM (S.T.) a ♀ B. lucorum [illegible] Salix caprea in back garden, the [illegible] flowers. At 2.30 on 10th [illegible] a ♀ B. terrestris [illegible] at the willow, just before [illegible] 7.0 & 8.0 PM (S.T.) two ♀♀ B. lucorum [illegible] willow flowers.

On 9th [illegible] (3.30 PM [illegible]) I walked up round past R.C. Chapel [illegible] up lane to old quarry [illegible] Mr [illegible]; down past [illegible] & so back to [illegible] Old [illegible] & home to 5 PM tea.

On way down, just below [illegible], Daisy spotted a male Wheatear — our first of the season [illegible].

11th April 1947. At 5.30 PM two ♀♀ of Bombus lucorum & 1 ♀ B. pratorum were in back garden, the former at Salix caprea, the latter investigating the joints in the brickwork of Elkins' wall. At 1.45 PM I took a [illegible] about on the garden borders, Tim then = [illegible]

12th April 1947. [illegible] day, [illegible] wind [illegible] Salix [illegible] Elkins' [illegible] in [illegible] Terrace [illegible] front flowers [illegible] the flowering [illegible] the back of [illegible] with cut grass.

13th April 1947 (Sunday, [illegible] afternoon). Another fine [illegible] day, with strong cold N.W. wind. In forenoon saw a ♀ Bombus terrestris at Salix caprea, back garden, [illegible] on Black Currant bushes, & if so then the flowers should have been open in a normal season, although [illegible] had no experience of Black Currant flowers [illegible]! [illegible] only the earliest ♀♀ lucorum might have been fed on them the previous season.

15th April 1947. Sunny with strong S.W. wind [illegible] White garden having Saxifrage out in front garden, which [illegible] does not flower until after [illegible] long after the [illegible] frosts. Planted potatoes in back garden!

16th April 1947. Another fine, sunny, windy day, with rain threatening in evening & eventually coming on about 9 P.M. for a couple of hours. Went in afternoon to visit J. N. [illegible] at [illegible] & [illegible]

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16.4.47, cont.] 6 P.M. On return journey, by train, saw a Swallow between Blackrock & [illegible]. Gorse still the very full of flowers & Horse Chestnuts, Elm & some Hawthorn showing some leaves & buds.

17th April 1947. After rain of previous night conditions fresh — but the morning mild. Several [illegible] red hearing Saxifrage out in front garden (2 days after first white one?), Carex montana in back garden in flower, the buff Viola brought 1946 from Ballingarry Rectory, Co. [illegible], with 3 flowers, flower spike on Carex stricta by water [illegible] just showing, fronds of Osmunda showing, Ornithogalum umbellatum flowers nearly out, orchids in tub all showing & some "in leaf" so to speak. Growth rather checked later in day by blazing sun & strong cold East wind — in fact rather a cruel day for plants.

20th April 1947. A windy day, with showers, but sunny for the most part, the fine weather obviously breaking down.
In afternoon walked from [illegible] via Wellington House & [illegible] Ridge to Rathfarnham [illegible] & so home. Snow still lying in big gully between [illegible] & Corrig; as well as in upper part of Glendhu Stream. Heard one Willow Warbler at Wellington House, but saw no other migrants.

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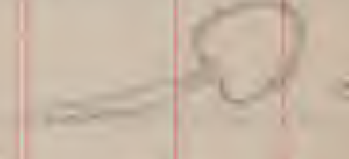
20.4.47, cont.
[illegible] [illegible] from [illegible] L. [illegible], Galway, S.T., Sept 1943 showing flower buds since 13th (for first time since brought it home) now nearly in flower! — now flowered! W.C.S. June 1947. The plant still [illegible] from Glencar, Co. Kerry, brought home [in Rock Garden] 1945 appears to me in 1946 [illegible] the [illegible] (Spring) plant [illegible]. Two [illegible] in [illegible]!
Spent morning 'mulching up' the many Saxifrages brought from Kerry by myself (Umbrosa etc.) & Frank [illegible] ([illegible]). All but a few of the first [illegible] plants are doing well & some going to flower. None of the native [illegible] yet in flower but [illegible] in front garden [illegible] white buds. Viola lutea from the [illegible], [illegible] (1945) flowering for first time.
Polygonum viviparum from [illegible] ridge, N. of Brandon (1946) now well up in pot & single plant in W. border of back garden also showing up, with many young plants derived from bulbils & brought home in "ground" with parent plants, as well as some [illegible] from last year bulbils, sending up [illegible](?) leaves,  on long stalks, quite unlike the [illegible] leaves of the mature plant, flower spikes just beginning to sprout. Lily of the Valley in back garden with white buds. Euphorbia hiberna sprouts showing in front garden. Carex stricta at water [illegible] almost in flower. [Ranunculus auricomus in [illegible] of Wellington House.

21st April 1947. A dreadful day of gale & rain from SE – SW.

22nd April 1947. Colder, showery with strong W wind falling in late evening. 4 or [illegible] [illegible] in sheltered [illegible] [illegible] nest at Portobello at 5 P.M. & [illegible] of Swans!

23rd April 1947. Rain from the 21st [illegible] floods of rain & gale all day – heavy dripping [illegible] rain & [illegible] roads.

24th April 1947. A fine day with [illegible] wind & only one very heavy shower about 12 noon. Glass rising steadily. One ♀ and [illegible] [illegible] of the [illegible] in garden.

25th April 1947. Glass turned down during night & the worst gale of the week blew all day, very [illegible] in early part of day, but no rain fell. Glass turned up about 3 P.M. & wind veered from S–SE to W–NW & dropped a little, so that at 5 P.M. [illegible] calm & [illegible] evening, but still no rain. A second pair of Swans has now established themselves just below [illegible] Cross Bridge, in spite of opposition from pair at Portobello, & building nest on [illegible] bed on N. side of canal about 100 yards below the bridge on 24th & 25th.

26th April. Carex stricta by [illegible] house near [illegible] with anthers showing.

27th April 1947. A very windy day (N.W.) with some showers up to noon, cold in evening. In afternoon [illegible] [illegible] to the [illegible] & on to Sandyford & Kilgobbin & home via the [illegible] & Rathfarnham. Heard no Willow Warbler near Dundrum & saw many Swallows at [illegible] places. The [illegible] River [illegible] [illegible] the Sandyford, with extended the [illegible] now nearly surrounded by bungalows & such [illegible] [illegible].

30th April 1947. A cold clear day, with some hail showers in afternoon, but [illegible] [illegible]. Wind very cold (NNW) in evening. Took 2.25 bus to Ballyboden & walked up to head of Glendhu ('Pine Forest'), where snow drifts lasted till a week ago, but now gone, & then back to catch 5.5 bus at Rockbrook & so home. Heard a few Willow Warblers & saw one ♂ Andrena on Dandelion at Rockbrook. Collected some mosses at 1100 ft in Glendhu & on clay bank at Rockbrook for Miss Thomson.

4th May 1947. George home for weekend from Belfast, so all went by 2.5 bus to Whitechurch & walked up lane from Kilmashogue about to Castle Kelly, then cut down to Kelly's Glen & across stream & up to the lane on slope of Tibradden & so back to 5.5 bus at Tibradden Ho. Collected a few mosses for Miss Thomson & saw Bombus terrestris, [illegible]

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4.5.47, cont. Kelly's Glen, Co. Dub.

& probably B. agrorum, also examined 1 ♂ Andrena nigroaenea at foot of Kilmashogue lane; a rather smaller ♂ Andrena type of thing had dentate mandibles & was certainly either apicata or praecox, I think the latter from its small size, but without killing it I could not make sure. Willows by stream very backward & not many in flower. Cuckoo heard several times, Sand Martins seen near Tibradden sand pit, Swallows in various places, Willow Warblers everywhere, but no Chiffchaff heard during the afternoon. Both Viola Riviniana & Reichenbachiana seen in flower, the latter only near Whitechurch. Vespa sylvestris ♀ seen in Kilmashogue lane & another ♀ (probably V. vulgaris) seen near Tibradden.

6th May 1947. A fine sunny day, after heavy rain at night & cold cloudy [illegible] before [illegible] P.M. previous evening, but wind (E–SE) very strong — too strong for insects. In afternoon rode with M.W.R. Graham to Gollierstown, on Grand Canal [illegible], arriving there about 3.30 [illegible] at 5.0 P.M. [illegible] shelter of old gravel bank E. of canal & N. of [illegible] no hymenoptera [illegible], but by sweeping in the shelter our combined efforts produced the following

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6.5.47, cont. Gollierstown, Co. Dub., cont.

Insects swept in shelter of old gravel bank E. of canal.

[illegible] & Phygadeuon sp., small species.

Opius irregularis 1 ♂. taken by Graham.

[illegible] [illegible] 2 ♂♂.

D. [illegible] & tibialis [illegible], about a dozen of ♀♀, several ♂♂.

One of the specimens having radial cell with long 1st abscissa nearly at right angle to stigma, giving the radial cell a box-like appearance & quite different from that of the other specimens.

D. [illegible] 2 ♂♂ — with much paler legs than [illegible]

D. [illegible] [illegible] [illegible]

[illegible] of [illegible]

[illegible] taken by [illegible] of [illegible] small species.

Two Small White Butterflies seen on road & one Peacock seen at Gollierstown by Graham.

Many Swallows & Willow Warblers, several House Martins seen near Milltown on return journey.

A few Bombus seen, probably [illegible], [illegible] & muscorum. Also Andrena nigroaenea ♀ at canal.

6th May 1947, contd.

In front garden Ranunculus [illegible] & Orchis mascula with flowers open — the latter the plant obtained at Torr Head (N. of), Co. Antrim, in May 1912, when the late R. J. Welch & I were making the arrangements for the B.N.F.C. 50th anniversary Long Excursion.

8th May 1947. Swifts over [illegible] at 6 P.M. today. The [illegible] [illegible] [illegible] [illegible] [illegible] the previous day (7th) after R. J. [illegible] absent for about a week.

Small White Butterfly seen in garden at 6 P.M.

10th May 1947. [illegible] cold day, [illegible] 50°, [illegible] day [illegible] [illegible]. On way home from business at 6 P.M. saw a ♀ Large White Butterfly in [illegible] Terrace.

11th May 1947. Many Swifts over Clareville Rd. all morning & midday [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

12th May 1947. [illegible] [illegible] or [illegible] in front garden, 116 Clareville Rd., D11.

13th May 1947. Euphorbia [illegible] (old plant) & Borage with first flowers open in front garden; [illegible] [illegible] plants in [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] group of [illegible] [illegible]

15th May 1947. [illegible] [illegible] [illegible] {taken on North Bull, Co. Dl., by J. O'Mahony.

21st May 1947. A most beautiful day with [illegible] wind [illegible] but light S.W. [illegible] [illegible] [illegible] [illegible]. The first day in the country for several weeks. [illegible] Took 2.5 bus from Terenure to [illegible] ([illegible] [illegible] Golden [illegible]) & walked up [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] a cup of tea; then round hill to [illegible] Gap & on back to 6.25 bus & so home. Sunny at first & then dull, but again [illegible] from 5 P.M. [illegible]

On walk up hill saw [illegible] [illegible] [illegible] ♂ & B. [illegible] ♀, [illegible] [illegible] on Dandelion (once to Golden [illegible]), [illegible], [illegible] [illegible] ♀, [illegible] of [illegible] [illegible] = (once to Golden [illegible]) Dolomedes fimbriatus ♀ & [illegible] [illegible] [illegible] [illegible] & several others [illegible] [illegible] [illegible] [illegible] [illegible] the [illegible]. On return journey saw a [illegible] white either P. rapae or [illegible] (coloured like the latter) & [illegible] the [illegible] Bridge & [illegible] Terenure [illegible] [illegible] Wood White Butterfly. Whitethroat singing [illegible] [illegible] [illegible] [illegible], Willow Warbler, Chiffchaff [illegible] Meloe proscarabaeus [illegible] [illegible] road [illegible] [illegible] at [illegible] P.M. [illegible]

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22nd May 1947. At 2.20 P.M. a ♀ [illegible] [illegible] seen on flowers of hawthorn [illegible] [illegible]. Holland ? on canal with eight [illegible] at 2 P.M., same number as the (?) brought up last year successfully.

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SCOTTISH TRIP 1947.

28th May 1947. Left Dublin at 8.30 a.m. (Summer Time) by S.S. [illegible], arrived Greenock 8.15 a.m. (Double S.T.) Left Glasgow 12.17, arrived Killin, Perthshire 4.30 P.M. & stayed at Mc[illegible] Private Hotel, "[illegible]" where found everything very [illegible].

29th May After afternoon the track [illegible] towards [illegible] over the [illegible] river & then a few hundred yards [illegible] the [illegible] & turned up the first lane coming from a [illegible] glen for two miles, through an old oak wood, with much hazel & birch, & in the glen itself [illegible] [illegible] birch & [illegible]. Vegetation very backward & [illegible] just coming into flower & mainly [illegible]. [illegible] [illegible] in swampy places near bridge of Lochay, [illegible] [illegible] [illegible] the [illegible] & [illegible] [illegible] was [illegible] first plants seen.

Bright [illegible], [illegible], [illegible] [illegible], & [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. The following were [illegible] on right bank (west side) of glen N.E. of bridge of Lochay, Killin, Perthshire.

Argynnis euphrosyne ♂♀

[illegible] 1 ♀ [illegible]

[illegible] phlaeas 1 ♂, ent 29.

29.5.47, cont. Glen Finlarig, Killin, Perthshire, cont.

Triclistus pallidipes ? ant. 32, ♂.

Plectiscus spp 2♂♂, ant. 30 & 31 =

Aperileptus ? ♂ ant. 30.

[illegible] scutellaris ♀, ant. 20 (R.C.L.S. 23.6.1945).

[illegible] [illegible] ♂, ant. 31.

Aspilota [illegible] ? ♂, ant 34

A. (Synaldis) [illegible] ? 2♂♂, ant. 20 & 22.

A. (S.) sp. ♂, larger than last, ant. 24

Braconid, 1

Chalcids 4.

Cynipid 1.

Coleoptera 5 including a scarlet beetle, like that found at Cromaglen, Killarney, but not that sp.! (= Eros aurora [illegible])

29.5.47. Garden, Killin, Perthshire.

Bombus hortorum ♀ on Lungwort (Pulmonaria)

B. agrorum var. Very rich fulvous on back 2♀♀, with last. one taken

Vespa norvegica ♀

29.5.47, cont. By railway, W. of Killin, Perthshire (at foot of Glen Dochart). 8.30 – 9.30 P.M.

Some Ichneumons collected from the table, with others near Dochart, including very [illegible], but [illegible] looked like [illegible] x [illegible] (? [illegible]), & a very fine shining-bodied species (2♂ ♀) along river which looks as if it had [illegible] in it, but [illegible] (?) [illegible].

Swept in [illegible] place, with Betula & Salix & took the following:—

Stenomacrus palustris ? ♂, ant. 22

Orthocentrus ? ♂, ant. 19.

[illegible] ♂.

30th. May 1947. A glorious morning with gentle easterly breeze & blazing sun, till early afternoon when clouds appeared & a drizzle gradually developed about 5 P.M. & increased in intensity [illegible] by 6.30

Left Tighnabruaich at 10.30 A.M. & walked to Bridge of Lochay & then up glen through oak wood, with a few odd trees of Scots pine of the old Caledonian forest left & then [illegible] birch; the oak wood stops suddenly at about 700 ft. & above that open grass & heather

30.5.47, cont. Craignacaillich, cont.
moor which continues upward to about
2,000 ft. From about 1200 ft. the alpine
plants began to appear and then on
Thalictrum alpinum & Alchemilla alpina with
abundant — the former in the damper parts of the
Callunetum & the latter amongst the grassy
vegetation & on rocks. We came to the
the eastern face of Craignacaillich at about
1800 ft & had lunch there & then worked our way
along this cliff to about 2,500 ft. & left off
there at 4.20 P.M. & came back along
burn draining the corrie between Craignacaillich
& Meall-an-Tarmachan in which many snow
patches still lay although facing South.

Plants seen on this cliff of Craignacaillich (in lower)
included Thalictrum alpinum, Ranunculus ficaria
[R. acris at about 800 ft.], Draba incana at
about 2,500, & a creeping species ? Draba rupestris,
Cochlearia micacea, fruited at 2,500 ft., Viola palustris,
V. Riviniana, Lychnis viscaria in one place,
Cerastium sp. (arcticum or alpinum) not in
flower, Geranium sylvaticum, Oxalis,

Rubus chamaemorus in bog,
Potentilla Crantzii

30.5.47, cont. Craignacaillich, cont.
Lathyrus montanus, Lotus corniculatus in one spot
at about 2,000 ft., Spiraea, Sibbaldia in quantity,
Sedum rosea, Saxifraga oppositifolia & hypnoides in
abundance, Saxifraga stellaris fairly common, & also
S. nivalis, 1 plant in flower at 2,500 ft., Hieracium sp.,
Solidago, Antennaria (a curious form with very small leaves, in flower), Crepis paludosa, Campanula
rotundifolia, Erica tetralix (flowers on?), Calluna,
Primula vulgaris, Hyacinthus [illegible], Pinguicula
vulgaris, Drosera rotundifolia (flower buds),
Polygonum viviparum abundant, Empetrum (nigrum?)
of a very upright bushy growth & not looking like the
ordinary [illegible] plant, Salix arbuscula? & a small
willow, creeping in bog, but neither in flower &
too juvenile to name; sedges all juvenile & not
even in flower, but Athyrium filix-femina, [illegible] &
phegopteris & possibly [illegible] seen on very top
moor, Sesleria caerulea common & in flower on
cliffs, Lycopodium alpinum (in one place only) &
L. Selago, Selaginella selaginoides, 2500 ft. &
with Botrychium Lunaria (M.D.S.), Polypodium
Dryopteris on screes, P. Phegopteris common,
P. vulgare, rare, Polystichum lonchitis &
P. aculeatum frequent, Asplenium viride

— possibly E. hermaphroditum! I.A.W.S. 1950!

30.5.47 cont. Craig[illegible], Perthshire cont.
Under stone on cliff at ca. 2500 ft. took a very large dead shell of snail Vitrea crystallina (? [illegible]!) & a nice specimen of slug Arion [illegible]; also took a small [illegible] & a nice Carabus glabratus. Small Tortoiseshell butterfly seen beside patch of nettles [illegible] cliff & a Fritillary of sorts seen [illegible] at about 1500 ft. but too far off to identify. Buzzard seen at 1000 ft. & Raven [illegible] at 2000 ft.

11 insects taken as follows, mostly at oak on upper edge of wood ca. 700 ft.
Dolerus aeneus & D. picipes. [illegible] 2 beetles = Cassida
Ichneumon [illegible] ♀. Hemiteles [illegible] ♀, ent. 27 Pimpla alternans, v. Kolthoffi, ♂, 2 ♀♀ at oak, ent. 24, 25-26.
Campoplegid ♂, ent. 28 = Bracon [illegible] ♀, ent. 26.

31st May 1947. After a very wet night, rain till midday & then gradually clearing to a beautiful sunny evening. [illegible] in Glasgow & R. Dochart in [illegible]. Had a short stroll before lunch along left bank of R. Dochart W. of Killin. In afternoon walked along the Achmore road to S. shore of Loch Tay: tried sweeping birch, &c. along roadside & by lake shore & took the following insects.

42 insects mounted & labelled

Achmore
Mid Perth
31.5.47
A.M.S.

31.5.47. cont. Insects taken near Achmore, East of Killin & on S. shore of Loch Tay, in afternoon (3-5 p.m.).
Bombus lucorum ♀♀ seen; B. hortorum ♀ at [illegible]
Vespa norvegica ♀ at [illegible].
[illegible] frequent on birch: 2 ♂♂, 6 ♀♀ =

Sawflies. Dolerus [illegible] ? ♀ on leaf of Lime tree
D. nigratus? ♀ on birch. Pontania [illegible] ♀ on Salix
Allantus pallipes ♀ [illegible]
[illegible] ♀ off birch
Ichneumonidae & Braconidae, &c.
Exephanes occupator ♀ (or [illegible]), ent. 25.
Phaeogenid ♀ = [illegible] ? ♀, ent. 20
Cryptinid ♂, [illegible] ♀, ent. [illegible]
Hemiteles [illegible] (2 ♂♂), ent. 23-24. H. [illegible] ♂, ent. 22, black femora
H. [illegible] ♂, [illegible] femora, ent. +23, [illegible]. H. [illegible] ♂ [illegible] tipped femora, ent. 24.
H. [illegible] ♀, black, [illegible] ♂, ent. 1½.
Pimpla alternans var. Kolthoffi ♀, ent. 24.
[illegible] ♀, ent 23; [illegible] small!
[illegible] ♂, ent. +21, broken!
Campoplegid ♂ = [illegible] ? ♂, ent. 29.
[illegible] ♂, ent 28.

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31. 5. 47, cont.

Eupithecia [illegible] 1 or 2, at 16.

[illegible] [illegible] [illegible], in [illegible] [illegible], at 23.

Argyresthia [illegible] 1 small ♂, at 23. [illegible] [illegible] ? ♂, at 34.

[illegible] [illegible] ? ♂ at 21, and [illegible] [illegible] [illegible] (Both caught [illegible] [illegible]) 1 [illegible], with [illegible] [illegible], 2 [illegible] [illegible]

[illegible] 2 : 1 ♀ [illegible] [illegible] = [illegible] [illegible] [illegible] Hal. and

Phaeogenes [illegible] Hal. ♂ ([illegible])

[illegible] 7.

[illegible] 1.

Coleoptera about 2 dozen taken & nearly all at sap from freshly cut stumps, including

Sp. [illegible] punctata?

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1st June (Sunday) 1947. After another very wet night, thunder & downpour at breakfast time, so that we had given up any idea of spending the day on Meall na Teanga. [illegible] started about 11 AM. The rain had cleared & walked up Glen Lochy to the falls of Lochy — a fine sight after the [illegible] rain! [illegible] some [illegible] from the rocks beside the falls for [illegible] [illegible] & one from a tree stump nearby. [illegible] [illegible] [illegible] that the day was improving. Had lunch (1 PM) on a [illegible] of wood — [illegible] recently cut down — & after lunch proceeded north [illegible] slope of Meall-Dhuin-Croisg, 2431 ft., [illegible] top on rocky crag N.E. of summit. After tea (4 PM) came down by stream between Meall Dhuin Croisg & [illegible] [illegible] & so back to foot of Glen Lochy & home — the best part of day in blazing sun & great heat. At Falls of Lochy saw some plants for first time in district, e.g. Carex [illegible], Melampyrum [illegible] & Ivy (beside the falls, on rocks). On way up slopes of Meall Dhuin Croisg, saw little of interest beyond the ordinary plants of the district (except [illegible]! Plantago [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]) until we reached a cliff below which was a great block scree or rather talus, with blocks up to 10 feet cube. The height of this talus I [illegible] [illegible], but I think it is under 2,000 ft. Here many interesting plants, including Saxifraga nivalis, numerous patches, & many in flower;

Beside the Falls of Lochy caught a Rogas parasitized dead caterpillar from which emerged later a ♂ Gelis — a hyperparasite!

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1.6.47 cont. Meall Ghaordie crags, Glen Lochay, cont. — [illegible] [illegible]; Asplenium viride; Galium [illegible]? Alchemilla alpina in abundance; Aspidium lonchitis a few; [illegible] [illegible]; Sax. oppositifolia in abundance; Asplenium Ruta-muraria a clump of three small plants in chink of a rock. On the grassy slope above the talus & below the base cliff, much Silene acaulis in flowering patches. As we came near the summit of Meall Ghaordie crags the small scarp became more & more covered with Alchemilla alpina, Sax. oppositifolia, & new plants appeared. We did not actually go on to the summit, but veered to NE & had tea on a rocky knoll [illegible] mile beyond it & slightly lower. On the knoll took ♂ [illegible] & 2 ♀♀ of a sawfly Amauronematus mcluckiei det. R B Benson 1950, but collected no other Hymenoptera during the day. Plants seen on rocky scarps E & N.E of summit included Arenaria verna, Salix arbuscula & [illegible] (both ♂ & ♀ taken to [illegible]) Draba incana, Vaccinium Vitis-idaea (very common all over the hill above 2000 ft. both on rocks & in swampy places); Polygonum viviparum (very abundant in grassy [illegible]); Thalictrum alpinum (very abundant above 1500 ft. except grassy [illegible] & in [illegible]); Silene acaulis. A single small Listera cordata amongst short heather & Sphagnum on way up to [illegible] ridge.

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2.6.1947. A very fine, soft & very hot day, all sunny but with haze clouds at times. [illegible] [illegible] posted some plants home to Mrs Rock from Meall Ghaordie crags, & also a [illegible] form of [illegible] dioica - died in 1949 drought 1945 from 2500 ft on [illegible] [illegible]. Went by 2 o'clock bus to Lawers & to stay at Ben Lawers Hotel. Later afternoon we went down to shore of Loch Tay & [illegible] edge of fields & [illegible] [illegible] & also edge of loch & swampy field W. of old [illegible] & [illegible] down to Lawers for dinner at 7 P.M. [illegible] [illegible] [illegible] the [illegible] [illegible]. Took the following insects during the afternoon.

Lands sloping between the hotel at Lawers & Loch Tay shore.

Bombus lucorum - 1 picked up dead on road & B. agrorum; several ♀♀, [illegible] the [illegible] of the [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] than the [illegible] form.

Sawflies. Dolerus [illegible] [illegible]
D. [illegible] ♂ ♀.
D. niger ♂ [illegible].
Tenthredo [illegible] ♂, ♀ [illegible]
[illegible] [illegible] ♂.
Monophadnus pallescens ♀.
Rhogogaster fulvipes ♂.
[illegible] lateralis ♀. Hoplocampa [illegible] ♂.
Pachyprotasis [illegible] 2 ♀♀ Pteronidea [illegible] ♀ small ♀.
Pristiphora denudata

[illegible] painted [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Tay [illegible] [illegible]

2. 6. 47, cont. Lawers, Perthshire, cont.

Cratocryptus? ♂, ent. 25, yellow spots on clypeus. =

Phygadeuon? 2♂♂, one large, one smaller, ent. both 21 =

Stenomacrus 1♂, 1♀ = S. curvicaudatus, ent. both 25.

Bracon 6 ♂♂ = B. cf. [illegible] incl. ° 5♂♂, ent. 27, 27, 28, 28 & 29; [illegible]

B. [illegible] 1♂, ent. 28, tergite 3 [illegible], [illegible] the last.

Opius 2♂♂ = O. levis W.? ♂, ent. 22.

O. caesus Hal.? a small ♂, with very dark legs, [illegible] tergite 2.

[illegible] [illegible] [illegible]

Aspilota [illegible] = A. [illegible] ♂, ent. 19; [illegible]

A. cf. [illegible] ♀, ent. 19.

Dacnusa 16 [illegible] [illegible] [illegible] = [illegible] ♂, ent. 22.

D. [illegible] 1♂, 1 very small ♀, ent. 24 & 20, [illegible] (ent. 19 & 21)

D. [illegible] both 2♀♀, ent. both 23. D. [illegible]? 1♂, ent. 23. D. [illegible] ♀, ent. 29.

D. metula sp. n. ♂, ent. 27 {with large black [illegible] [illegible] [illegible]}. D. cf. areolata Nixon?, ♂, ent. 29.

D. ninella Nixon? 2♂♂, ent. both 32. D. cf. merion Nixon? ♂, ent. 30

D. sp. nov.? (near pastinacae), ♀, ent. 29. G.W.S. 26.3.1951! In coll.!

Coelinius ♂ = C. [illegible] ♂ a large ♂, ent. 48. In coll.!

Bracon [illegible] 1♀ — the only [illegible] seen, ent. 18.

Proctos?

Chalcids

[illegible] about 15.

3rd June 1947. A thick wet mist & cloud [illegible] [illegible] all day. Nevertheless, set off at 9.30 for Ben Lawers & eventually reached summit about 1.30 PM. [illegible] [illegible] [illegible] [illegible] 20–30 yards ahead [illegible] [illegible] [illegible] followed [illegible] [illegible] [illegible] about 50 yards from the summit. The route followed [illegible] as follows: [illegible] the small [illegible] N. of the [illegible] to the first ridge, [illegible] [illegible] [illegible] Meall Greigh, then across flattish [illegible] & [illegible] [illegible] of S.E. slope of Ben Lawers, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] at about 3000 ft. & then continued [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] broken ground, [illegible] [illegible] [illegible] [illegible] the S.W. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 50 yards [illegible] summit [illegible] [illegible] [illegible] [illegible] [illegible] obelisk, or cairn, bearing the inscription

Height of Ben Lawers 3984 feet alt.

O.S.
B.M.
S1590

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Then came back by a parallel & similar route but over [illegible] [illegible] type of ground to that traversed on the journey. Arrived back at hotel about 5.40 [illegible] [illegible] [illegible] [illegible] at 4 P.M. at about 2000 ft.

3.6.47, cont. Ben Lawers, cont.
Collecting some beetles at lunch place & near summit & a small rock almost at the summit. Thrips included.

Vegetation for the most part very backward & stunted [illegible] in the [illegible] of the [illegible], [illegible] especially stunted. Sax. oppositifolia in full flower & locally right on uppermost 500 ft.; a few plants of Cochlearia micacea in flower on the higher ground. Lower down (between 3,500 & 3,000) Alchemilla alpina [illegible] ^{& vulgaris}, [illegible] Empetrum nigrum, Lycopodium [illegible], Caltha palustris (1 flower [illegible]) about the only plants in flower. Thalictrum alpinum locally abundant from 1500 ft to almost summit. Caltha palustris only the one plant seen, probably over 3,000 ft. Ranunculus acris was seen to well over 3,000 ft. Cochlearia micacea [illegible] not [illegible] on the higher part (above 3,000 ft.) & a few plants in flower. Viola palustris. Sagina sp. seen but not possible to identify. Arenaria rubella I think seen but uncertain. Cherleria sedoides very frequent to summit & very like a [illegible] Silene acaulis [illegible] plants [illegible] with flowers. ← One dense clump almost certainly Sagina [illegible]

3.6.47, cont. Ben Lawers, cont. [illegible]
Cerastium alpinum & C. [illegible] frequent [illegible] alpine form of C. ^{vulgatum} [illegible]. Gnaphalium sylvaticum one plant near top of [illegible] rocks. [illegible] [illegible] amongst grass, & Alchemilla alpina an abundant & characteristic constituent of the flora. Alchemilla vulgaris (agg.) [illegible] & very small [illegible]. Sibbaldia procumbens locally very abundant to summit. Rubus Chamaemorus locally frequent on wet [illegible] boggy slopes & [illegible]. Saxifraga nivalis & stellaris both near [illegible] the summit. Poa [illegible]: [illegible] few plants [illegible] & [illegible] of the summit. Sax. aizoides & S. oppositifolia abundant [illegible] the summit & in full flower [illegible] Chrysosplenium oppositifolium [illegible]. Adoxa moschatellina locally frequent. Galium [illegible]. [G. [illegible] [illegible] at about 1,000 ft.]. Achillea millefolium to [illegible] summit (i.e. 3,980 ft approx [illegible]). [illegible] Vaccinium Myrtillus [illegible] on steep [illegible] slopes [illegible] 3,000 ft. V. uliginosum [illegible] not [illegible]. V. Vitis-Idaea frequent. Primula vulgaris, only a few [illegible]. Pinguicula vulgaris seen over 3,000 ft. ["Keys" of Ash (Fraxinus excelsior) (2) found lying on snow patches at more than 3,000 ft.]

3.6.47, contd. Ben Lawers, contd.

Veronica serpyllifolia var. [illegible] seen in several places. Armeria maritima only seen in one spot on edge of a wet mica bog near a spring. Oxyria digyna in one place only not far below summit. Rumex acetosa or acetosella frequent, but I [illegible] species on both varieties. Polygonum viviparum locally abundant to near summit. Empetrum nigrum abundant on lower slopes. Salix herbacea the only species seen on the higher ground & there very abundant. [Salix reticulata & [illegible] species seen by burn above Lawers at c. 2,000 ft.] [Alchemilla alpina seen in pasture at about 2000 ft. above Lawers on return journey, [illegible] in flower]. Carex rigida & C. binervis & C. panicea the only 3 sedges certainly seen over 2,000 ft. [Below 2,000 most C. pilulifera, possibly & some C. [illegible] & others not identifiable for certain.] Lycopodium Selago to near summit & L. alpinum & L. clavatum frequent. Fern almost absent, but a few Blechnum & Lastrea dilatata seen & [illegible] nearly to summit. L. [illegible] of stream. [illegible] only once seen recently, just E of summit on return journey.
Searched for Hymenoptera on every [illegible] but found none, though Diptera (2 to species) abundant [illegible] & a butterfly seen in [illegible] of moor.

4th June 1947 Lawers, Perthshire.

[illegible] with a thunderstorm & heavy rain in afternoon, about 1.30 came on again after lunch with more thunder & heavy rain followed by drizzle. The wind shifted from S. to [illegible] & back again before & after the thunder. [illegible] went out for a short stroll between 4 o'clock & 5.30 along road near the Lawers Burn & back to hotel. [illegible] along the roadside & [illegible] [illegible] far off [illegible] Lawers Tree planted on bridge over the burn, Orchis ericetorum [illegible] pink form in [illegible] field. Only plant of interest noted [illegible] of [illegible], also [illegible]
Rain continued all afternoon & evening.

5th June 1947. A fine day, after more rain at night, but glass still down & falling. At 9.45 went up the Lawers Burn through W. edge of Larch plantation to about 1200 ft. or possibly more. A quarter of a mile above plantation came on some minor springs on right (W) bank of river, coming out of the moraine & [illegible] the margin, mainly there, full of interest, [illegible] though still backward. Here around the springs were [illegible]

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5. 6. 47. cont. Lawers & the Lawers Burn, cont.

following :– Sax. aizoides & Alchemilla alpina, Tofieldia palustris, Juncus triglumis & [illegible] with [illegible], Carex capillaris, C. dioica [illegible], C. Goodenowii, C. flava group, C. [illegible], C. panicea & possibly C. hornschuchiana, Eriophorum latifolium & angustifolium, Pinguicula vulgaris, Drosera rotundifolia, Equisetum palustre, Polygonum viviparum.

In mid stream in shelter of rock [illegible] large clumps of Myosotis [illegible] & on left bank [illegible] of Salix — the only Salix seen on the [illegible] except some few S. aurita [illegible] (R. caninus group). On return journey came [illegible] [illegible] W. of the Lawers Burn & so to hotel for lunch at 1 P.M. On [illegible] down east slope at about 3000 ft [illegible] a little prostrate Salix amongst the grass & gathered [illegible] specimens. [illegible] found one [illegible] of a [illegible] Salix & [illegible] this plant =
& the smaller specimen on east slope =

170

5. 6. 47. cont. Lawers, Perthshire, cont.

Rain all afternoon, but about 7 P.M. it [illegible] cleared [illegible] for a short [illegible] along [illegible] the [illegible] from the hotel [illegible] (the Narrows) [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] (Polygonatum [illegible]) [illegible] Carex [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] on the hotel. Rain again all night & [illegible]

NW. wind. Four beetles taken during day :– Geotrupes sylvaticus, [illegible], Telephorus paludosus & Amara [illegible] — all [illegible] E. O'[illegible].

after [illegible] stopped [illegible] & [illegible] of [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ant. 25] [illegible] Hotel.
+ also weevil Otiorhynchus sp.

6th June, 1947. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] morning [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] off for the [illegible] of [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] edge of the corrie. [illegible] at 1 P.M. Wind [illegible] [illegible] very strong & cold – [illegible] worked up [illegible] side of corrie [illegible] [illegible] [illegible] of [illegible] [illegible] [illegible] [illegible] afternoon [illegible] on ledge [illegible] [illegible] [illegible] of the summit. Left summit at [illegible]

6.6.47, cont. Ben Lawers, SW corrie, etc. Got back from crags & slopes S.E. from the summit (behind Meall [illegible]) & so down side of [illegible] to the hotel at 5.45. [illegible]. On outward journey after leaving road [illegible] 'nature-pasture's', much Viola lutea — nearly all flowers blue & yellow var., on the grassy slopes up to about 1000 ft. — Later in day saw [illegible] in two places on rock ledges at about 3,500 feet, below & W. of summit, these latter plants appearing to me to be very 'dwarf', but still very young & the buds well advanced in several cases. [illegible] records Viola lutea from 3,450 feet, which evidently refers to the same place as that seen by me. At this spot on edge of snow patch [illegible] & specimens of small [illegible] [illegible] & [illegible], much 'alpine' form considerably further up beside [illegible] [illegible] [illegible] on [illegible] 3,000 ft. At about 1500 ft. on way up the alpine types began to appear in quantity — Alchemilla alpina, Thalictrum alpinum, Sax. aizoides & hypnoides in quantity. At one marshy place saw much Tofieldia & the little white flowers [illegible] referred to on p. 169 (? Juncus triglumis) & Listera cordata at about 1,000 ft. beside a rill. Several

6.6.47, cont. Ben Lawers, etc.

[illegible] places [illegible] [illegible] [illegible] Epilobium sp. (either alpinum or alsinifolium, [illegible]) & [illegible] Holly fern & Cystopteris fragilis began to appear. Higher [illegible], [illegible] [illegible] [illegible] masses of Silene acaulis [illegible] & [illegible] sedoides [illegible] [illegible] [illegible] [illegible] alpine, Luzula spicata, Cochlearia micacea, Arenaria rubella (= rubella) [illegible] gradually [illegible] [illegible] alpine [illegible], but [illegible] [illegible] of the [illegible] [illegible] [illegible] [illegible] not stop to [illegible] [illegible] [illegible] to [illegible] [illegible] [illegible]. Plants seen near 3,000 ft. to summit included [illegible] [illegible] & [illegible] Draba [illegible] (with [illegible] leaves & 'summer'!), Saxifraga hypnoides of [illegible] from [illegible] summit, Sax. stellaris, Sax. nivalis (in one spot only), Sibbaldia procumbens, Azalea, Myosotis alpestris (nearly in flower & quite common at about 3,500 ft.), Geum rivale (in one spot only), Veronica sp. (probably V. serpyllifolia), Sax. oppositifolia in profusion & in fine flower, Chrysosplenium oppositifolium, Epilobium sp., Galium boreale, Sedum roseum (very common at about 3,500–3,600 ft.), Hieracium sp. (very rare), Gnaphalium supinum (abundant), Achillea millefolium, Campanula rotundifolia (abundant all the way up!)

173.

6.6.47 cont. — Ben Lawers, cont.

Vaccinium myrtillus (very scarce), V. Vitis-idaea (not common), [illegible] (by no means common), Oxyria digyna, Rumex Acetosa (very abundant & very [illegible] in all [illegible] slopes & [illegible]), Polygonum viviparum (very common all the way up from about 1700 ft), Salix reticulata in plenty at about 3,000 ft just coming into flower, very abundant on face of cliffs at about 3200 – 3500 ft. just below the summit, Salix herbacea, Luzula spicata (common), Carex [illegible] almost [illegible] above 2,000 ft, but no [illegible], plenty, [illegible] [illegible] on [illegible] side of corrie just showing flowering & this same species seen in abundance towards [illegible]; [C. atrata probably seen on cliff at about 2,500 ft.]; Grasses not yet recognisable, but some seen probably Poa alpina from stiff, broad, glaucous leaves, [illegible] in rare [illegible] [illegible], Cystopteris fragilis, Lastrea dilatata, Potentilla Crantzii (probably [illegible]), [illegible] [illegible] & [illegible] seen [illegible], Potentilla [illegible] [illegible] to 3000 ft, [illegible] [illegible] [illegible] [illegible]. Coming down the [illegible] slopes [illegible] 3000 ft & [illegible] reaching the flat shelf behind (N.E.) [illegible] [illegible] [illegible] [illegible] (in Azalea) [illegible], [illegible] in flower, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] and at slightly higher level at 3000 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Geo! 843.

174.

7th June 1947. — The [illegible] (at [illegible]) [illegible] [illegible] [illegible] after a fine night & [illegible] [illegible] [illegible] in the [illegible]. [illegible] [illegible] [illegible] got [illegible] & started up the [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] Polygonum viviparum in flower [illegible] [illegible] [illegible] & [illegible] [illegible] [illegible] & [illegible] [illegible] but flowers disappointing. On flat part [illegible] above the [illegible] [illegible] [illegible] [illegible] by [illegible], Vaccinium myrtillus (dominant), V. Vitis-idaea, [illegible] & [illegible] Rubus Chamaemorus in flower. [illegible] [illegible] [illegible] of [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] below the [illegible] & [illegible] up [illegible] [illegible] [illegible] [illegible] 5 [illegible] the [illegible] [illegible] [illegible] & up [illegible] the cliffs [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] the [illegible] [illegible] [illegible] Trollius (Spirits & [illegible] in cliffs) ca. 3000 ft., [illegible] [illegible] (?), with [illegible] in several places & usually under overhanging rocks, [illegible] alpina, Arenaria rubella? (?), [illegible] [illegible], [illegible] [illegible] & [illegible], Viola lutea in cliffs & just below [illegible], Saxifraga hypnoides, Sax. stellaris, Sax. nivalis, & Sax. oppositifolia, [illegible] (with [illegible] in [illegible]), Hieracium spp., Campanula rotundifolia, Polygonum viviparum, Oxyria digyna,

7.6.47, cont. North Corrie, Ben Lawers cont.
Sedum rosea, Salix sp.? several kinds on cliffs
in inaccessible places & with yellow flowers
[illegible] Myosotis alpestris [illegible] ([illegible] [illegible]
[illegible]), Silene acaulis (in full flower),
Cerastium alpinum (little in flower), Carex rigida
& [illegible] ([illegible])?, in [illegible] [illegible], [illegible]
[illegible] but the [illegible] it was small, Salix
reticulata, Lycopodium alpinum, [illegible], &c.

Small Gnaphalium supinum again seen at the [illegible]
[illegible] [illegible] at Vaccinium [illegible], [illegible] [illegible]
[illegible], Cerastium [illegible] ([illegible]), [illegible] [illegible]
[illegible] [illegible] [illegible].

A cold drizzly day — very poor — & ground too
water logged after recent rain to be pleasant walking, with
the snow having only recently melted, & with little advance in
the vegetation for the most part very backward.

8th June 1947. Rain all day. Spent morning drying
up things, but in afternoon went up south slope of
Ben Lawers to place where we found Azalea
procumbens on 6th to show it to Mr. [illegible] Green
of Birkenhead. Very wet, very windy & very cold, with
sleet & hail. Refound the place [illegible] [illegible] [illegible] [illegible]
one small piece of Azalea in flower, but we failed
to refind our plant — no doubt owing to the mist
which made hunting extremely difficult & the day very
unpleasant. Came back by different route [illegible]
seeing some Cloud Berry, Vaccinium [illegible], [illegible] [illegible]
Gentiana nivalis, [illegible] [illegible] ([illegible]) on
rocks by [illegible], [illegible] on [illegible] the small burns
which run [illegible] 200 yards north of the hotel, & [illegible]
on several [illegible] [illegible] [illegible] in [illegible] ([illegible]
[illegible] [illegible]!) & a small [illegible] ([illegible] [illegible]).

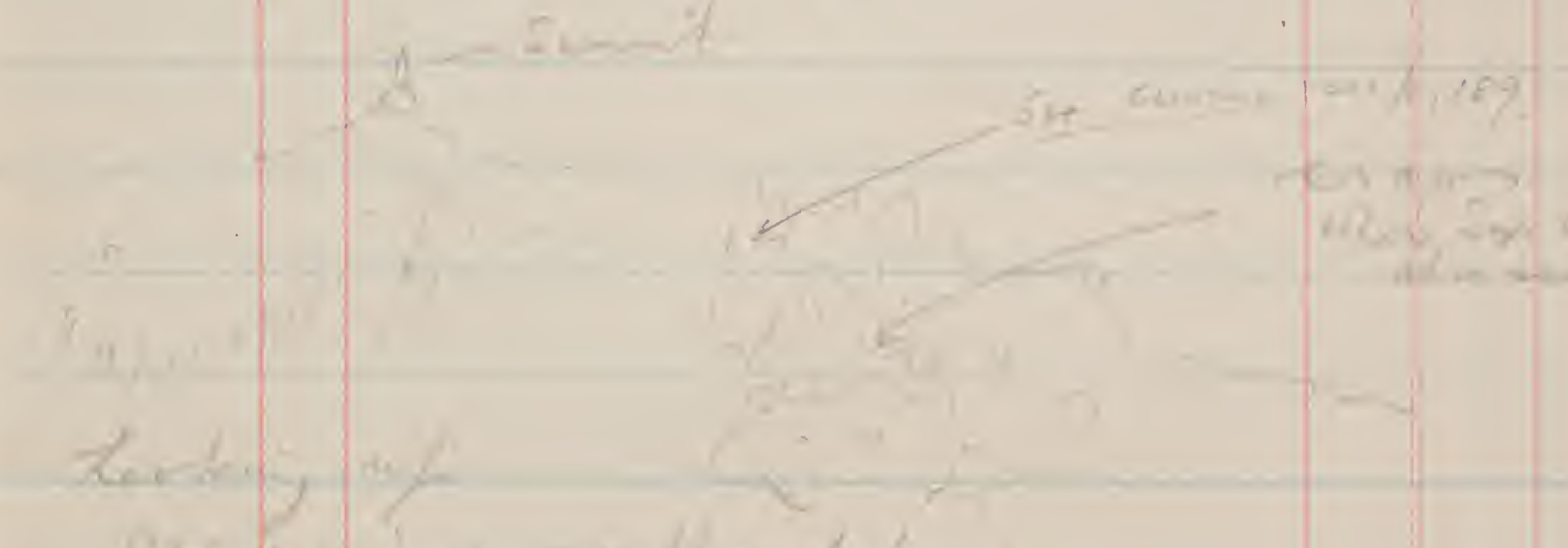
? [illegible] AWC 1961

9th June 1947. [illegible] [illegible] on a [illegible] Euphrasia [illegible]
taken near hotel at Lawers in morning.

9.6.47, cont. P.T.O. →

9th June 1947. A fine day with varying cloud & strong N.W. wind, cold & very cold in forenoon & cloudy over the tops, but afternoon glorious sun & [illegible] no wind. With Mr Green & Mr & Mrs Holder [illegible] up to [illegible] of 25 [illegible] in [illegible] the Cairn above & then walked up [illegible] with the S.W. [illegible] of Ben Lawers & [illegible] lunch at about 3750 ft. in cairn. After lunch Mr Green & I spent some time in upper part of corrie & south of summit where still much snow & many [illegible] of remnant snow patches. At some 3800 ft [illegible] Saxifraga [illegible], plants including Carex, Draba incana, Draba rupestris, Cochlearia [illegible], Caltha palustris, Thalictrum alpinum, Viola palustris, V. [illegible], Silene acaulis, Sagina [illegible], [illegible], Cerastium alpinum, Cerastium [illegible] & alpinum?, [illegible], Alchemilla vulgaris, A. alpina, Potentilla [illegible]?, Epilobium alpinum, Sedum rosea, Saxifraga hypnoides, Sax. stellaris, Sax. nivalis (frequent), Sax. aizoides, Sax. opp

[illegible], Sax. Lawers, [illegible] cernua [illegible] [illegible] in [illegible] of ground on N. [illegible] & the [illegible], S.W. of the summit & a few hundred feet below same.



Looking up
S.W. corrie & north east!

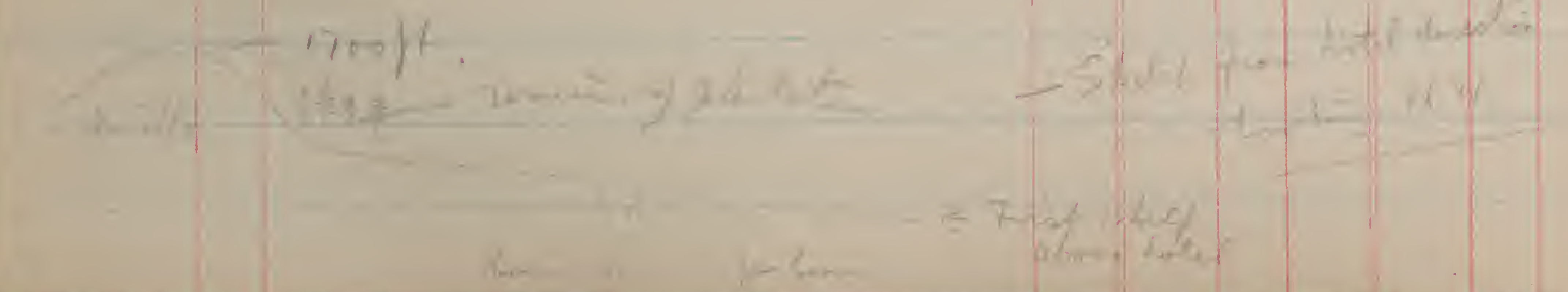
Chrysosplenium oppositifolium, Galium saxatile, Gnaphalium supinum, a plant with green [illegible] & white [illegible] at base, [illegible], [illegible] which might be Veronica alpina affected [illegible] [illegible], Sax. cernua [illegible], Taraxacum [illegible], Erigeron alpinum [illegible], Veronica [illegible], V. [illegible], [illegible] alpestris, Veronica serpyllifolia?, Rumex acetosa, Oxyria digyna, [illegible], Salix herbacea & S. reticulata, Armeria vulgaris var., Luzula sylvatica,

179.

9.6.47, cont. Ben Lawers, contd. Luzula spicata, Saxifraga caespitosa, Carex rigida, C. [illegible], but rather sparse, not conspicuously extensive. The ferns Holly Fern, Lastrea dilatata, Cystopteris fragilis, Parsley Fern, 3 Blechnum [illegible], Asplenium viride, Botrychium lunaria, Selaginella, Lycopodium Selago & alpinum.

On way up from burn collected some Salix of the Lawers Burn about 200 ft above road, one species like a small erect form of caprea (♀) & a small stunted form [illegible].

On way down from summit crossed the ground for Salix procumbens & Mr [illegible] found a big piece of it on the grass & [illegible] of specimens. [illegible] 3000 ft.



180.

10th June 1947. A thick wet mist & rain all forenoon, clearing about 2 PM & mild hot sun in afternoon, but mist came over more from 6.30 onwards, and wet till [illegible].

Did not go out before lunch, except for a stroll between 12.30 & 1 PM, then went into foot of glen of Lawers Burn below the road, this consists of Oak Wood & flora, and Hazel, Birch, Salix caprea, Ulmus montana, &c., mixed with Spruce & other planted trees.

In afternoon went up to springs on right bank of Lawers Burn at c. 1200 ft (above Spruce & Larch plantation), where Tofieldia palustris & Juncus triglumis, as found on 5th June, p. 169.

Had afternoon tea by the burn, crossed it & went NE across moor to scarp at 1600-1650 ft on S. slope of Meall Greigh. Here found a scant flora including Helianthemum on mound where sheep lie at base of rock scarp & top of grass slope, Alchemilla alpina, Thalictrum alpinum in wet grassy spots above scarp, Sax. oppositifolia, Erica cinerea, rare & very stunted, Mt Ash, Rosa sp. & several Salix bushes, ♂ & ♀, of which some like

10.6.47, contd. S. slope of Meall Ghaordie, col. Salix phylicifolia + Epilobium alsinifolium [illegible] the wet outcrop.

On return journey found many boggy pools, but only Carex recognisable were C. Goodenowii & C. panicea, specimens of the former [illegible] small & [illegible] one foot coming out of a pool of water & about 15 inches above same & just coming into flower (specimens dried!); in one pool Drosera found [illegible] & Scirpus fluitans & Potamogeton polygonifolium occurred in all pools & very similar [illegible] same.

Painted Lady Butterfly seen at 3 P.M. on way up at ca. 1000 ft. in hot sun.

Bolerus ?geniae ♀.

Andrena subopaca ♀♀♂

The latter = bees.

11th June 1947. Meall Garbh & The Yellow Corrie, Ben Lawers, Perthshire.

Very fine day, warm, light haze, fresh W. [illegible], but [illegible] in afternoon, dull [illegible] at night.

Set out 9.30 A.M., with Mr & Mrs Holden & Mr H. E. Green, via the Lawers Burn for The Yellow Corrie (Coire nam [illegible]) [illegible] & [illegible] station on the col between Lawers Burn & the Yellow Corrie for Juncus biglumis.

On way up to col, by stream east of the [illegible] col, noted specimens of a Salix by a waterfall & in [illegible] at head of this burn, some plants of Vaccinium Oxycoccus microcarpa, Rubus Chamaemorus & other common plants, but vegetation only just freed from snow, so pushed on NW towards lowest gap in ridge, where snow had melted earlier & vegetation was advanced. Finally on some very wet ground discovered by Mr Green I spotted some tiny plants ~1 to 2 inches high of the sought-for Juncus biglumis in a very [illegible] bare place & here it proved abundant. Ascending drier ground on the ridge, a flora mainly composed

11.6.47 cont. Yellow Corrie, [illegible] cont.
of Veronica [illegible], Thalictrum, V[illegible] [illegible] &
Saxifraga [illegible] in [illegible] & [illegible] [illegible].
After lunch I went straight down to col & onto
the Yellow Corrie (alt of col ca. 2700 ft) while
Daisy & the others went W to a high point
on the ridge E of col. here Daisy discovered
a fine patch of Azalea procumbens in
full flower. Much snow still in the
Yellow Corrie & the hole must have been
nearly filled with snow a short time before.
Hence it was hopeless to look for Carex
microglochin, & nevertheless spent an hour
or more at the greenest looking boggy spots
& collected specimens of various sedge-y
looking plants to grow, one, some that seem
forms of Juncus triglumis, much Carex saxatilis
just coming into flower & lots of the common
Lawers plants. Daisy & I climbed up to cliffs
& on to shoulder of Meall Greigh (alt. ca. 3500 ft)
& here had tea. At this height a mossy vegetation
occurred with some bare ground, stones & rocks, &
plenty of Salix herbacea & Sax. oppositifolia in flower

Yellow Corrie & Meall Greigh, [illegible] cont.

11.6.47 cont.

— All Amauronematus [illegible] Benson, fide R.B. Benson! 1950.

Many sawflies seen at this height — chiefly getting
out of flowers of Carex spp. with [illegible] on the
Salix herbacea & mossy vegetation. After tea
went on shoulder & dropped down into head of
the N. corrie of [illegible] Lawers, & [illegible] [illegible]
[illegible] at NE extremity to [illegible] & down into the
Lawers Burn. On the swampy ground [illegible] saw
a very large clump of [illegible] Juniperus communis
the first we had seen in the district.
Plants seen during the day included the above-mentioned & many others, but the latter not listed at the
time & so not remembered. AWS.

/ All these Coleoptera given to E. O'Mahony! AWS.

During lunch many Aphodius lapponum flew on to
our clothes & some other Coleoptera taken here & at tea time.
Three Dolerus aeneus (2♂♂, 1♀) taken over [illegible], & several
Bombus lucorum seen during day.

185.

12th June 1947. An intensely dull, misty day with cold E. breeze, & all vegetation very wet after overnight mist. Did not go out in morning, but packed up plants, mosses for Miss Thomson & insects to send back to Zoology.

Took 12.20 bus with same party as on 11th to Glen Lyon Road & walked up to Lochan-a-Lairige, between Meall-an-Tarmachan & Ben Lawers. On magnificent series of cliffs west of loch Mr Green had reports of Carex ? & much Salix myrsinites but we saw neither, no doubt due to want of time, as we had only about 1½ hours at the cliffs & on the talus over the lake. Saw Trollius (in abundance), Thalictrum alpinum, Arabis hirsuta, Draba rupestris, D. incana, Sisymbrium Thalianum, Cochlearia cf. alpina, Silene acaulis in flower, of various colours, & in abundance, Lychnis viscaria in flower, Cerastium
Hypericum pulchrum, Geranium sylvaticum, Lathyrus montanus, Alchemilla alpina & "vulgaris", Potentilla Crantzii (taken in flower by Mr Holden), Rubus saxatilis, Epilobium angustifolium, Sedum rosea, Sax. nivalis & stellaris, Sax. aizoides (1 flower), Saxif. hypnoides & Sax. opp.

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Probably only [illegible] of [illegible]

Angelica & Heracleum, Adoxa, Galium boreale, G. sylvestris?, Bellis perennis, Solidago (rare!), Antennaria dioica, Carduus heterophyllus, Campanula rotundifolia, Vacc. Vitis-Idaea, Pinguicula vulgaris, Rhinanthus sp., Thymus, Polygonum viviparum with whitish flowers at top of spike & bulbils below, Oxyria digyna, Empetrum, Urtica dioica, Salix cf. arbuscula, abundant, & one very large silvery leaved bush = S. lapponum?, Juniperus communis one bush, Habenaria viridis, Orchis mascula with unspotted or white spotted leaves, Juncus triglumis, on wet slopes below cliffs, Luzula spicata & campestris, Carex dioica, pulicaris, panicea, atrata (1 spike taken by Mr Holden on wet ledge below cliffs), capillaris, on edge of grassy ridge below cliffs, caryophyllea & pilulifera, ? starved, binervis! a curious tall upright grass (? Avena alpina?), with very broad & blunt leaves, Poa alpina common on fallen rocks at foot of cliffs, Woodsia alpina: 2 plants, one in dry crack with Poa alpina & the other under wet rock, Asplenium viride, Aspidium lonchitis,

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12.6.47. cont. Rocks on Lairige, &c., cont.
Beech Fern, Polypodium vulgare, Oakfern all at 1800 to 2200 ft.

On way back to breakfast on road saw a birch, Carex goodenowii & ~~[illegible]~~ rostrata in roadside marshy stream, C. flacca on roadside, Populus tremula in glen, Asplen. Adiantum-nigrum on bridge, & some interesting green-leaved Salix in glen at bridge of main road. "S. ~~nigricans~~ phylicifolia?"

On the cliffs above the loch, all at least 2000 ft., the mollusca Arianta arbustorum, Helix nemoralis & hortensis as well as Hygromia fusca, some all tiny.

13.6.47. cont. Ben Lawers
Beetle = Nebria gyllenhali Sch.
Diplopoda = Iulus?

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13th June 1947. A wet misty morning — completely misty. Spent morning pressing plants, some of which were sent to be posted back to Dublin. In the afternoon, set out for summit of Ben Lawers, after an early lunch, at 1 P.M. & went straight up from the W. of hotel & on to the southern ridge of Ben Lawers, & then up the one S.E. spur & so to summit. At between 2000 & 2500 ft. crossed large area of deep peat with Vacc. myrtillus dominant & much V. Vitis-idaea & V. uliginosum, & also Rubus Chamaemorus (in flower). On reaching ridge turned N. along this & passed several interesting bits of ground, including a flat spongy area — the source of a rivulet running into the N.E. corrie & Lochan a' Chait — the rich Erythrina [illegible], Cerastium alpinum, Sax. oppositifolia & other interesting plants, but many not in flower (too early!)

Beyond [illegible] of stony ridge is [illegible] wet rocky [illegible] which I suspected would be the station for "Sax. groenlandica (fide Engler)" & on N.E. side of a large rock, on a ledge some feet from ground found a patch of vegetation consisting of a form of mossy Saxifrage simulating "Sax. groenlandica" but possibly only an

According to the account given me by Mr. Cattell of Pitlochry, this was the site of the original discovery of Sax. rivularis in Britain, but it has long ago been exterminated here by collectors. 'AWS.' 22.6.1947.

[illegible] 1948.

13.6.47, cont. — Ben Lawers, cont. — environmental form of Sax. hypnoides, but time will tell, she has now 7 of the "alpine". Afraid now that the Saxifraga in Dr [illegible] plot of which he said to see only one or 2 plants in 1937 [illegible] not again met with it. It is a very [illegible], almost ciliate, with small dense rosette, and really looked at first sight like a cespitosa form. Other forms of Sax. hypnoides in the S.W. corrie resemble the above form in many ways, yet all are I think obviously only forms of S. hypnoides. Passing on to the summit we dropped down into the S.W. corrie & spent an hour (to 2.5 P.M.) investigating the distribution of Sax. cernua, & saw many colonies, derived probably from bulbils, amongst the uppermost crags & in the station where we saw it on 6th June. On this occasion we must have seen at least 1000 plants & some in process of "flowering" & with bulbils in axils of the leaves. Left summit at 5.10 & reached hotel at 6.50. Mist cleared at about 5 P.M. & return walk made in fine weather with glorious view over L. Tay. [Subsequently (22.6.47) Mr Adam of Edinburgh explained to me that only very rarely does Sax. cernua ever produce a real flower & then only one at top of the spike bearing the bulbils! B.H.S.]

See detail in p. 178.

14th June 1947. A fine morning [illegible] but fine with glass falling & chilly & hazy.

Left Lawers by 10.35 bus for Aberfeldy. Left Aberfeldy at 1.35, changed at Ballinluig, & arrived Perth 2.50. Left Perth at 3.5 & arrived at Forfar about 3.50. Left Forfar at 4.35 & arrived Kirriemuir 5.35, where we [illegible] to "The Ogilvy Arms", Milton of Clova. Having two hours to spend in Aberfeldy, went up "The Birks", a very pretty glen turned into a kind of public park, to the Falls of Moness. Here the burn falls down the side of a rocky ravine & into a deep narrow chasm. Latter full of Mercurialis perennis, Geranium sylvaticum, Sanicula europaea (probably [illegible]), Allium ursinum (very large form), many Oak Fern, Veronica montana, Circaea [illegible], & a very fine flora of common plants all looking fresh & pleasant. A few days before Mr Green had brought the Stellaria nemorum from the locality, but we did not see it. Saw a male Common Redstart, [illegible] at "The Birks".

In evening went for a stroll up Glen Clova about half way to foot of Glen Doll.

Large Click Beetle (M. rufipes) taken at "The Birks" Aberfeldy, Mid Perth, at lunch time!

Sunday!
15th June 1947, a very [illegible] chilly morning, gradually clearing in afternoon with strong cold N.W. wind & [illegible] [illegible] [illegible]. [illegible] [illegible] in forenoon, but at 2 P.M. walked up the Corrie Burn, [illegible] [illegible] a new [illegible] corrie N. of [illegible] & E. of Ben Reid, then climbed steep slope to N.W. of corrie on the shoulder of [illegible] [illegible] & came back round W. & S. sides of Ben Reid & down again to the Corrie Burn again & so home.

On way up Corrie Burn saw & collected specimens of several [illegible] willows (?) & [illegible] [illegible] with small pointed (bryophyll) [illegible] (?) [illegible] [illegible] silvery [illegible] (feathery filling?), [illegible] [illegible] (?) a small [illegible] from [illegible] [illegible] [illegible] of fruit. On way down [illegible] [illegible] [illegible] [illegible] many plants of very small ♀ yellowish catkins [illegible] of [illegible] on [illegible] [illegible] [illegible] [illegible] & Listera cordata [illegible] [illegible] [illegible] on [illegible] at [illegible] [illegible] ft. [illegible] [illegible] former [illegible] [illegible] [illegible] [illegible] at ca 2400 ft. [illegible] an abundant patch seen. Genista anglica 1 plant seen at about 1100 ft. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] cliffs. [illegible] [illegible] [illegible] in corrie, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] ([illegible] abundant, [illegible] [illegible] [illegible]), with Empetrum, V. Vitis-idaea & V. Myrtillus, & in [illegible] [illegible] Carex [illegible], C. Goodenowii & ? C. [illegible] ([illegible])

15.6.47, cont. Corrie Burn & Ben Reid, Clova, Angus.
On the cliffs a very poor flora was seen, but the rocks seem too [illegible] for the plants [illegible] [illegible], but the following were noted: [illegible] [illegible], Vacc. Myrtillus, V. Vitis-idaea, [illegible] [illegible] ([illegible] [illegible] [illegible] [illegible] [illegible] in flower), Empetrum, [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible]. Cystopteris fragilis, [illegible] & [illegible] [illegible].

[illegible] top [illegible] of cliff [illegible] [illegible] [illegible] [illegible] & [illegible] Salix [illegible].

On west crest of Ben Reid much Azalea procumbens seen in flower, just as described by [illegible] Gardiner one hundred years ago.

At about 2,000 ft. saw the first specimen (a ♀) of Bombus lapponicus at flowers of Vacc. Myrtillus & many others seen afterwards up to nearly 2,500 ft., [illegible] very cold [illegible] N. wind. Saw also 1 ♀ of B. jonellus & several ♀♀ of B. lucorum.

Three beetles taken by the Corrie Burn: —
= Campylus linearis
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] 1950!

16th June 1947. After a fine cold night, a very bright sunny morning, stiff cool N.W. breeze.

Left 10.15 Mr Cook drove me up to head of Glen Clova & we then walked up right bank of the White Water (into Glen Fee or Fiadh) & beginning at the mouth worked the base of the cliffs northwards to the waterfall & then up a gully south of this fall & so across the [illegible] & down an old track on N. side of the ravine of the Kilbo burn back to Glen Doll Lodge & then walked from there to hotel (1 hour & ½ minute from gate of lodge to hotel). By this time 6.15 P.M. wind had backed SW & freshened & rain threatened, eventually coming on about 8 P.M.

Lunch was taken 1 P.M. at foot of main cliffs & tea (4 P.M.) at top of gully ca. 2400 ft. alt. Many forms of Salix seen during the day but none collected until about ¼ mile below the fall (by stream) in Glen Fee, & from there up stream to the fall, along base of cliffs south of fall & at top of big gully. [illegible] very silvery but [illegible] the S. side of gully. By the foot of the fall was a [illegible] with green twigs & leaves only just coming out. A common green bush with largish green leaves, [illegible] plenty [illegible] by stream below fall. Various green-leaved forms S of fall on cliffs & very silvery [illegible] forms from ¼ mile below fall, where a large tree growing

16.6.47 cont. Glen Fee, Angus, cont.

to top of gully at ca. 2400 ft. These probably included Salix phylicifolia, myrsinites, nigricans & lapponum lanata, while the "tree" suggested a mixture of caprea & lanata. On summit Salix herbacea very abundant & with large leaves & [illegible] bush with red almost ripe fruit. On a bush at base of cliffs S. of waterfall (? myrsinites) very [illegible] had pairs of [illegible] deep red galls parallel & 3 one on each side of mid rib [illegible]

[illegible] seen by [illegible] on summit plateau above 2500 feet. Thalictrum alpinum very abundant. [illegible] & Trollius on cliffs & the former [illegible]. Viola lutea in great abundance on lower ground in Glen Clova & at foot of White Water, all yellow form, with very large flowers. Silene acaulis common. Hieracium pilosella frequent. Geranium sylvaticum frequent but [illegible] of waterfall. Oxalis to summit plateau. Linum catharticum. [Ulex europaeus, a few bushes by road N. of hotel in Glen Clova, in flower.] Lathyrus montanus. Alchemilla alpina abundant & A. vulgaris scarce. Rosa of canina group on cliff at ca. 1900 ft. [illegible] Populus tremula, a small group on cliffs N. of waterfall. Epilobium alpinum & ? E. alsinifolium in the latter in stream near top of gully, the former in [illegible] places. Sedum rosea on cliffs. Sax. stellaris & aizoides frequent.

Sax. oppositifolia common to top of gully. Sax. hypnoides only seen by stream in gully & then common almost to top. Chrysosplenium oppositifolium. [Meum athamanticum common in pasture to Glen Doll Lodge from Hotel.] Heracleum on cliffs. Cornus suecica on patch halfway down track in corrie of Kilbo burn. [Galium verum in Glen Clova] Galium boreale on cliffs. Galium saxatile common. [G. palustre Glen Clova] Valeriana off. seen nr Glen Doll Lodge. Scabiosa succisa common. Tussilago farfara by the Fee Burn at least to foot of waterfall, with only small leaves. Bellis, with last, at foot & N. of fall. Solidago common on cliffs. Gnaphalium supinum only seen at head of track in Corrie Kilbo & there common at ca. 2,600 ft. Antennaria frequent on cliffs. Senecio aquaticus seen near Glen Doll Lodge. Saussurea alpina 1 patch seen on cliff near lunch place. Centaurea nigra. Carduus palustris & heterophyllus, the latter abundant amongst cut down & resprouting alders (Alnus incana & A. glutinosa) where motor turn at gate to Glen Doll Lodge. Taraxacum & Crepis paludosa (by waterfall & [illegible] R. Smith, 28 & 48). Hieracium spp. including one of the boreale group. Campanula rotundifolia. Calluna & Erica tetralix. Azalea procumbens some beautiful patches in flower along upper third (over 2000 ft) of the track down Corrie Kilbo & also on plateau above this & Glen Fee.

Vacc. myrtillus abundant. V. vitis-idaea. V. uliginosum common on summit plateau with Empetrum & Rubus chamaemorus. Pyrola [cf. minor or rotundifolia] one patch with two spikes in bud on cliffs S. of waterfall found by Dorie. Trientalis europaea locally common & in flower to 2500 ft. & in dry & wet situations. Pinguicula vulgaris, common. [Myosotis sp. cf. sylvatica by road sides, etc. at Glen Doll Lodge; & cf. palustris in ditch by roadside in Glen Clova, 1 mile below hotel.] Digitalis rare on cliffs. Pedicularis sylvatica abundant. Rhinanthus sp. & Euphrasia sp. seedlings seen on cliffs. Veronica chamaedrys common. V. serpyllifolia common. [V. alpina? by stream on summit plateau, 2500 ft alt.] Thymus frequent. Oxyria digyna frequent on cliffs. Polygonum viviparum frequent. Juniperus communis a few small bushes on cliffs S of waterfall. Orchis ericetorum frequent on moor 1200 - 1800 ft. & in flower. O. mascula (on cliffs). Habenaria viridis several seen on moor & one on cliffs at ca. 2000 ft. Juncus trifidus in flower [illegible] one tuft on middle cliff near lunch place, with same foliage as plant so common on Ben Lawers (& referred to on p. 173, ante) also the habitat for Azalea procumbens.

16.6.47 contd. Glen Doll, Angus, contd.

Luzula [illegible] on cliffs. L. spicata rare on cliffs & by track. L. [illegible] ? *, with tuft on track down Corrie [illegible]. Eriophorum angustifolium, Eriophorum vaginatum & E. [illegible]. Carex dioica, C. pulicaris, C. atrata on cliffs at & by waterfall (Carex vaginata !) & one flower-stalk found by [illegible] in little place on slope at foot of cliffs. C. echinata [C. Lepocarpa (= oederi) recorded in Glen Clova] C. rigida to 2000 ft. C. Goodenowii to 2,500 ft. C. flava group (sp.?) to 2,500 ft. C. pilulifera to about 2,500 ft. C. panicea to 2500 ft. C. pallescens frequent to 2,000 ft. C. glauca rare. C. binervis to 2,500 & very variable [C. capillaris [illegible] recorded in Glen Clova.] Grasses not noted? Polypodium vulgare P. Phegopteris & P. Dryopteris all frequent. Lastrea dilatata, Asplenium Trichomanes frequent. Cystopteris fragilis frequent on cliffs. Asplenium viride only a few plants seen on cliffs. Blechnum common. Lycopodium Selago & Selaginella frequent on cliffs. Equisetum ~~sylvaticum~~ ** typical on lower ground, but near top of valley ca. 2000 ft. a small procumbent form with branches in flat fronds & not in whorls — [illegible] not [illegible], same as taken on cliffs at Loch-na-[illegible], on 12.6.47 (later).

*. R.D. Meikle in letter from Kew, 28.2.48 agrees this is [illegible] & adds "a Highland form with dark brown spikelets"

*. R.D. Meikle, 28.2.48, writes "Equisetum arvense L. var. arcticum (Ledeb.)?"

16.6.47, contd. Glen Doll, Clova, Angus, contd.

Saw [illegible] [illegible] [illegible] & G. [illegible] Lapponica taken on cliffs at ca. 1800 ft. searching for nest-site. [illegible] [illegible] from 2,000 ft. [illegible] [illegible] [illegible] [illegible]. [Hieracium [illegible] descend & nesting on cliffs in Corrie [illegible] facing South V.C. p. 226 →]

17th June 1947 Very thick rain all night & morning, but in the [illegible] cleared by lunch so went down Glen Clova, on left bank of R. Esk, & [illegible] [illegible] [illegible] [illegible]. On roadside & [illegible] [illegible] saw Juniperus [illegible], Salix [illegible] [illegible] [illegible] [illegible] on 15th (p. 191) [illegible], [illegible] [illegible] [illegible], [illegible], &c.

Glen Clova, Angus.

[illegible] [illegible] [illegible] right bank of river [illegible] [illegible] [illegible] [illegible] at about 1500 ft or less. [illegible] [illegible] [illegible] [illegible] Bromus, Trifolium, [illegible] many common [illegible], [illegible] [illegible] with [illegible] [illegible] [illegible] & [illegible]. On the [illegible] [illegible] [illegible], [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] Trientalis frequent [illegible] [illegible] it Listera cordata abundant in short [illegible] of Calluna at 500 ft.

17th June 1947, cont. Glen Clova, cont.

In plantation near the Kirk & the Manse (on a hill) [illegible] a very beautiful alien Labiate, with large bright purple flowers [illegible] large & [illegible] the [illegible] [illegible] = Lamium maculatum L. [vide R.D. Meikle, 28.2.48, who states that this species [illegible] in [illegible] 1872 (Belfast) & 1935 (Lanark)]. Salix alba & a [illegible] Elder [illegible] [illegible] with a [illegible] [illegible] growing by the bridge over the Esk — no doubt planted.

Torchanted — Hemiteles ♀ on window — Hotel, Clova. ent. 22.

18th June 1947. After a very wet night the ground [illegible] drizzled & [illegible] rain persisted till after midday (D.S.T.) & then gradually cleared & [illegible] wind [illegible] S.W. [illegible] from S.E.

Got lift in car to Glen Doll Lodge & walked up north side of Glen Doll to Jock's Road at 2,000 ft., then [illegible] to bottom of gorge of the White Water, just above the [illegible] at foot of Craig Maud — reported to by Wm Gardiner in 1848 as "some old fashioned birch trees" — but could not possibly cross the Water & so came back down glen & climbed up S.W. slope of Craig Mellon. Had lunch at foot of Jock's Road & tea on slope of Craig Mellon.

18th June 1947, cont. Glen Doll, N. side, cont.

The flora of the N. or left bank side of the glen very poor in alpines (except for a few willows) owing to [illegible] [illegible] the [illegible]. The [illegible] Craig Mellon [illegible] Helianthemum, Vaccinium [illegible] & some other less common plants were [illegible] Rubus saxatilis. The willows taken were as follows:—

(1.) a small narrow-leaved [illegible] bush (3 ft.) overhanging the burn W. of Jock's Road at ca. 2,000 ft.; (2) a small S. [illegible] bush amongst Calluna E. of the track at ca. 1,800 ft. [illegible] — cf. the S. aurita × repens taken on 17th in Glen Clova.

(3) a small S. repens-like shrub [illegible] the heather above track & at N. base of Craig Mellon, at about 1,800 ft. (4) a bush (4 ft.) almost submerged by flood on left bank of White Water just opposite Glen Doll Lodge, with very [illegible] & large [illegible] — possibly a form of S. nigricans*; (5) one of a number of [illegible] (also ♀) growing amongst Alders at same place as 4 & no doubt same species or very near this.

At 2,000 ft. between Jock's Road & the burn found a small [illegible] nest of Vespa norvegica (under a large boulder) made of grey & brown alternating zones, but [illegible] & have no idea [illegible] not recognising the nest at first [illegible] with my foot & knocked it off [illegible], then [illegible] out & put

* Prof. J.W. Heslop Harrison of [illegible] considers this plant probably (nigricans × cinerea) × back to nigricans [illegible] not quite [illegible]

18.6.47. cont. – Glen Doll, left bank, cont.

it in my box: later found that the ♀ was sitting & semi-torpid so brought it home. [illegible] very common & eating, a common thing of late. Carex atrata very abundant & also [illegible]; Carex rupestris frequent; Luzula [illegible] & alpina [illegible] on rocks at [illegible] place. A dark butterfly (Probably a Small Mountain Ringlet) seen flying up hill & lost in mist on ridge of Craig Mellon.

Heard the first Wren of the tour singing at foot of gorge of the White Water. Found a curious [illegible] caterpillar on foliage of Calluna – ? dead & attacked by fungus.

Yes! dead & not living!
A.H.S.

19th June 1947. A very fine day, mostly sunny, warm, with some clouds, wind fresh S.W.

Got lift in car to Glen Doll Lodge & walked up right bank of the White Water, across the Fee Burn, & then struck up to east face of Craig Rennet & walked northwards along foot of cliffs. Flora very poor at first, except for widespread species such as Salix spp., Alchemilla alpina, Lycopodium selago, [illegible], Oxalis & [illegible] [illegible] of juniper, Thalictrum alpinum, Polygonum viviparum, Sedum rosea, but soon [illegible] the "[illegible]". The

19.6.47 cont. Craig Rennet & Craig Maud, cont.

Dounalt, which separates Craig Rennet from Craig Maud, the flora became richer, with Ranunculus [illegible], Arabis hirsuta "being rock form", Veronica alpina (in fine fruiting specimens), Carex atrata (in several places, [illegible]), Carex capillaris [illegible] & [illegible] fruiting, the [illegible] [illegible] flowers [illegible] the [illegible] side of [illegible], [illegible] rocks; Silene acaulis; Epilobium alsinifolium; Saxifraga [illegible] (in [illegible]); Hieracium spp. abundant, [illegible] in flower; [illegible] [illegible] viridis, [illegible] (also in [illegible] edge of rock); Juncus triglumis frequent in beds of rivulet, a small spring; [illegible] in [illegible] & Bartsia [illegible] (frequent in bogs). Had lunch (1 P.M.) at about 2,000 ft. below cliffs & afternoon tea (4 PM) in the Dounalt, just below fall, where higher up Mulgedium alpinum is still said to grow. After tea ascended to top of cliffs on face of Craig Maud where many white flowers were seen at the [illegible] distance; these proved to be those of Dryas, which covered ledges on [illegible] of cliffs & with it a [illegible] recorded Veronica [illegible], V. alpina, Salix reticulata, Pyrola sp.? (not in flower), Vaccinium uliginosum (the first time seen on cliffs!), Erigeron alpinus (Seen only, not plentiful).

19. 6. 47, contd. Craig Rennet & Craig Maud, contd.

On the way up we had to leave the [illegible] [illegible]
saw one plant of [illegible] on right bank of
[illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
A Small Tortoiseshell butterfly seen on cliffs at over 2,500 ft. [illegible] [illegible] [illegible] [illegible] spot.
Small Heath butterflies [illegible] [illegible] [illegible] [illegible] Glen Doll
Lodge & [illegible] [illegible] of [illegible] [illegible] [illegible] the [illegible]
[illegible] [illegible] [illegible] [illegible] the [illegible].
A wasp seen by Davis [illegible] at [illegible] 2,500 ft. Bombus
lucorum ♀ seen on flowers of [illegible] [illegible] at
Glen Doll Lodge in afternoon (& a ♂ at same spot
on same flowers at same time on 18th), & ♀ Bombus
hortorum seen on foxgloves on outward journey in
morning, Glen Doll Lodge. Three pairs of Red
Grouse met with on cliffs, keeping [illegible] [illegible] as
we passed by within a few feet. [illegible] seemed to have
been more than a week old, the third with the older
took to flight. Frogs frequently seen on the [illegible]
to over 2,500 ft. Two House Martins [illegible] [illegible]
at 2500 ft. Ants (Formica fusca) seen [illegible] [illegible]
rock wall of face of Craig Rennet [illegible] [illegible] 1800 ft
[illegible] at base below cliff [illegible] [illegible].

20th June 1947. A wet day with SE wind & [illegible]. Rain
all day from 8 [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] afternoon. [illegible] [illegible] [illegible]
[illegible] & [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] of the [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible].

21st June 1947. A fine morning after a day & night
with clouds & [illegible] [illegible] [illegible] [illegible]. [illegible]
104 M
[illegible] to Glen Doll Lodge & walked up [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
end of the Fee Corrie to look for Carex alpina, [illegible]
we were unable to explore on 16th. All the gullies at
east end of cliffs still with snow [illegible] [illegible]. [illegible]
protected [illegible] [illegible] [illegible] of snow on SE-facing [illegible].
Went down the [illegible] side of the [illegible] [illegible] of the gullies &
spent the rest of the day working the cliffs above 2,000 ft on the
SE [illegible] of the Corrie & finally came up one of the biggest
= Corrie Sharroch fide Mr. Colville!

21st June '47, cont.   Corrie Fee, cont.

gullies, [illegible] [illegible] [illegible] [illegible] [illegible], crossed
over & down Kilbo corrie again to car at Glen Doll
Lodge, at 6.30 P.M. Clearing showers – change of wind
[illegible] to N & NE, brought fog & heavy showers which
passed before we [illegible] out of Kilbo corrie, but with
change of wind temperature dropped considerably & we had
only [illegible] [illegible] with slight [illegible] [illegible] [illegible] though
[illegible] really unpleasant & I never had my cape on.

Although we couldn't find Carex alpina we were
very well [illegible] [illegible] [illegible] [illegible] very much
interesting plants, including the following:–
Woodsia alpina (many plants of which had [illegible] few
[illegible] [illegible], but had a [illegible] appearance with little [illegible]
all over it like stomata on those of a coral), [illegible] [illegible]
plant with three flowers in [illegible] cliffs, at ca 2400 ft.;
Cochlearia sp. common in [illegible] gully which [illegible]
[illegible] by — a small form, but not so small as the
micrantha of Ben Lawers – probably because of denser
associated vegetation; Trollius frequent to highest
ledges on cliffs; Arabis hirsuta, Silene [illegible],
Sagina ? [illegible] [illegible] in roots of Carex [illegible];
Geranium sylvaticum, Alchemilla alpina & vulgaris, Geum rivale;

21.6.47, cont.   Corrie Fee, cont.

Epilobium alpinum & alsinifolium, Rubus saxatilis,
R. Chamaemorus, [illegible] small patch [illegible] [illegible] [illegible]
at ca 2850 ft., [illegible] [illegible], Saxifraga [illegible], frequent
[illegible] [illegible] [illegible] [illegible] in gully [illegible] [illegible]
[illegible] [illegible], ca 2000 & 2400 ft.; Sax. stellaris, Sax. hypnoides,
Sax. opp., Sax. hypnoides frequent & [illegible] very [illegible],
[Cornus suecica by path [illegible] [illegible] in [illegible] Kilbo [illegible]
[illegible]], Galium boreale, Sibbaldia procumbens by path [illegible]
[illegible] [illegible] [illegible] Kilbo corrie [illegible] [illegible] Saussurea
alpina frequent; Hieracium spp. [illegible] [illegible] [illegible] [illegible],
Gnaphalium [illegible] [illegible] at ca 2500, & frequent [illegible]
[illegible] [illegible] in Kilbo corrie; Vaccinium uliginosum
frequent on cliffs, [illegible] [illegible] flowers [illegible] [illegible]; V. Vitis-idaea
& V. Myrtillus; Trientalis [illegible] [illegible] [illegible], ca 2000 ft.;
[Arctostaphylos [illegible] & [illegible], [illegible] [illegible] in Kilbo corrie],
Oxyria digyna, Polygonum viviparum, [illegible],
Salix reticulata & S. lanata [illegible] [illegible] hybrid; S. herbacea,
S. myrsinites?, S. lapponum ?? [illegible] [illegible] [illegible];
Betula nana [illegible] cliffs; Empetrum [illegible] [illegible] [illegible]
[illegible] cliffs – [illegible] [illegible] [illegible]; [illegible] [illegible];
Veronica alpina [illegible] [illegible] in flower [illegible]; Tofieldia
palustris, [illegible] cliffs [illegible] [illegible]; Juncus trifidus common,

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21-6-47, cont. Corrie Fee, cont.
Luzula spicata frequent & on summit & on top part of path in Kilbo corrie; also a very pretty little form of L. campestris or multiflora ?; Carex pilulifera, C. rigida very abundant & variable in size, etc; C. atrata frequent & some lovely patches seen, C. panicea, C. vaginata very frequent on wet slopes & dripping rocks in many places & very distinct when once seen, C. pilulifera, C. flacca (glauca) rarely seen, C. flava group, but none more than starting flowering; C. binervis frequent & very variable in the width of leaf etc, on lower parts of cliff-slopes; Lycopodium Selago, L. alpinum v. rare; [L. clavatum rare & only seen by deer track in Corrie Kilbo]; Selaginella, Polypodium Dryopteris rare & P. Phegopteris very abundant, Cystopteris fragilis, Polystichum Lonchitis, Blechnum, & also several plants on cliff in gully where we had tea that looked native (with fruit) & resembled Woodsia, but [illegible] — probably only juvenile Cystopteris, yet the [illegible] fruit! Except a few beetles & one Ichneumon, no insects of interest seen during the day. The Ichneumon is a ♂ & seems to be certainly Ichneumon [illegible] Zett., with red patch on mesonotum, red scutellum & post-scutellum, tricoloured abdomen & antennae, & smoky yellowish-fuscous wings. ant. 33-segmented.

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Sunday
22nd June 1947. A fine day, sunny, very hot with light N. wind.
Spent afternoon sweeping for insects [illegible] the Loch [illegible] Glen, on left bank of R. Esk [illegible] very rare, particularly on [illegible] (C. [illegible] & Gentiana, [illegible] N of road, & surrounded by old birch trees, [illegible]. Here took the following insects: — (96 minutes from 1 to [illegible] 12.50 et seq.)
Glen Clova, Angus. 11 till 12.30 noon: = 1.
Salticus [illegible] of a spider which it was carrying!
Centaurea [illegible].

Bolitobius [illegible] 3 ♂♂
[illegible] 1♂, 1 ♀
[illegible] ♀ 4 (1♂, 3♀), [illegible]
[illegible] 2 ♂♂, [illegible]
[illegible] ♀, [illegible]
[illegible] ♀, ant. 24.
[illegible] ♂ [illegible] ant. 70
Bombylius [illegible] ♂, ant. 71.
Polyplectron [illegible] ♀, ant. 28.
[illegible] 2 ♂♂, ant. [illegible] 28. [illegible] ant. 28
[illegible] 2 ♂♂, 1 ♀; [illegible]

22. 6. 47, cont.   Glen Clova, Angus, contd.

Smicrophthalmus quinquemaculatus Fall? ♂, on birch [illegible] 11.2.49.

Macrocheilus? 5 ♂♂, 1 [illegible] ♀ =

[illegible] ? ♀, ent 18

[[illegible] 1♀, not seen when labelling, but in too many numbers?]

[illegible] 1♀, ent 21

[illegible] ♂, ent 22.

[illegible] 2 ♂♂, ent 28 & 29.

Euphorus pallidus 1, ent. 18.

[illegible] ♂ 2♀♀, ent all 24.

Rhamnocerpa? rufipes ♂, ent 26, small spec.

Empididae sp. 3 ♂♂, ent. 19, 22 & 23 =

Dacnusa affinis 2 ♂♂, ent 20 & 25

D. ,, 1, ent 30.

D. ,, 1, ent 31.

[illegible] praeceler Hal ? ♂, ent 32

C. [illegible] 3 ♂♂, ent 40, 40, & 41.

[illegible] 2 ♀♀

Aspilota? dissoluta ♂, ent 16 & 4 other ♂♂ ent 16–17 =

=

22.6.47 contd.   Glen Clova, Angus, contd.

Psocidae 12 =

Chalcididae 2

Cynipidae 3

Coleoptera 11

Diptera 2.

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3 P M 22. 6. 1947. Swept in marshy spot behind the hotel, Clova, the following = station 2 [[illegible]]

Rhamphomyia [illegible] ♀.

Platypalpus ?   not old.

Mesoleptus ?

Hadrodactylus [illegible] ?

[illegible] ♂ =

Rhamnocerpa rufipes ♂

Psocids 1.

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22. 6. 47, cont. R. Esk, Clova, Angus.

4.30 — 6.0 P.M. Swept fields, [illegible] bank, under [illegible] birch trees, on left bank of R. Esk, ½ mile below Milton of Clova. [illegible] took the following — [170 [illegible] tabulated from 16 to 23. 2. 1950! A.W.S.]

Bombus lucorum 1♀, the only Bombus seen during a very fine day. Platycampus [illegible] ♀. Limnophila ferruginea ♀ [illegible] below birch trees, probably freshly emerged.

[illegible] of note:

[illegible] of rufipes ♂, ant. 28. [illegible] [illegible], ant. 20 + 22

[illegible] [illegible] 1♀.

[illegible] sp. [illegible] ant. 8.

[illegible] [illegible] 2♂♂ (ant. 24–25), 1♀ (ant. 24), all [illegible] [illegible] [illegible]!

[illegible] [illegible] 2♂♂, ant. [illegible]. [illegible] [illegible] ant. both 20

[illegible] [illegible]? ♂, ant. 26. St. sp. [illegible] 2♀♀ — mutilated.

St. ([illegible]) [illegible] ♀, mutilated! [illegible] of [illegible] [illegible]. 1♂, 2♀♀ ant. 37, 41, [illegible] 42.

[illegible] [illegible] ♂, ant. 32. [illegible] [illegible] [illegible], ant. [illegible] + 37.

[illegible] sp. 2♂♂, ant. [illegible] 48. [illegible] sp. 2♀♀, [illegible], ant. [illegible] 37.

[illegible] [illegible] ♂, ant. 47. [illegible] sp. 1♂, 1♀, ant. 26 – 30.

[illegible] [illegible] ♂, ant. 33. P. sp. smaller, 1♂, 2♀♀, ant. [illegible] 21, [illegible] 20,

[illegible] sp. ♂, ant. 31. [illegible] [illegible]? 2♀♀, ant. [illegible] + 28.

[illegible] sp.? ♀, mutilated, ant. [illegible], propodeum [illegible], [illegible] of [illegible] [illegible]? [illegible] 27.2.1950!

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22. 6. 47, cont. R. Esk, Clova, Angus, cont.

4.30 – 6.0 P.M. cont.

[illegible] [illegible] ♀. [illegible] [illegible] 3♂, ant. 29, [illegible]?

[illegible] sp. ♂, ant. 32. [illegible] ♂, ant. 29. [illegible] [illegible] ♀? ant. 21.

[illegible] [illegible] ♀, [illegible], ant. 20. Opius [illegible] ♂, ant. 26; [illegible]!

Opius [illegible] 2♀♀, ant. [illegible]. O. [illegible] ♂, ant. 36. O. ([illegible]) [illegible] ♂ ant. [illegible].

Opius sp. [illegible] 3♂♂, 4♀♀, ant. 21, 23, 23 [illegible], 22, 22, x, x, [illegible]).

Phaenocarpa rufipes ♂, ant. 28. Ph. conspurcata ♂, ant. 27. Aphaereta major ♀, ant. 25.

Pentapleura pumilio ♂, ant. 26. P. angustula 3♂♂, ant. 32, 33 + 34.

Orthostigma sp. ♀, ant. 20. Aspilota (Synaldis) [illegible]? (2♂♂) mutilated.

Aspilota [illegible]? [illegible] ♀, ant. 15; propodeum [illegible]). [illegible] [illegible] 1♀ [illegible], ant. [illegible], [illegible] 22.

A. sp. [illegible] [illegible], ant. 22. A. [illegible] ♀, ant. 24. A. [illegible]? ♀, ant. 22.

A. [illegible]? ♂ [illegible]. A. sp. ♂, [illegible], ant. 33. A. sp. [illegible], ant. + 23.

A. [illegible] ♂, [illegible], ant. 26 ([illegible] [illegible], [illegible] [illegible]!). A. [illegible] [illegible] ♂, ant. 30. [illegible]!

A. [illegible] 2♂♂, ant. 17–18; 1♀ ant. 16. A. [illegible] ♂, [illegible], ant. 17. A. [illegible] [illegible] ♀, ant. 16.

A. sp.? ♂, ant. 26 [illegible], [illegible] propodeum, [illegible]. [illegible] [illegible] ♀ ant. [illegible]

Dacnusa [illegible] 1♂, 1♀, [illegible], ant. 26 + 26. D. [illegible] ♂, ant. 22. D. [illegible]? ♂, ant. 25.

D. [illegible]? ♀, ant. 31. D. [illegible] ♀, ant. 28; [illegible] 2♂♂, ant. 33 + x. D. sp.? ♂, ant. 33

D. [illegible]? 2♂♂, ant. 31 + 33. Coelinius [illegible]. Hol. 3♂♂, ant. 49, 50, + x. C. sp.? [illegible] ant. [illegible] 47.

[illegible] sp. small black ♂, ant. 16. Aphidius [illegible] 1♀, ant. 16; 1♂, ant. 16; 3♂♂ mutilated [illegible].

[illegible] 3 =

Other [illegible] 35 =

[illegible], including Mymaridae =

[illegible] 2 =

Diptera 2 =

Coleoptera 2 =

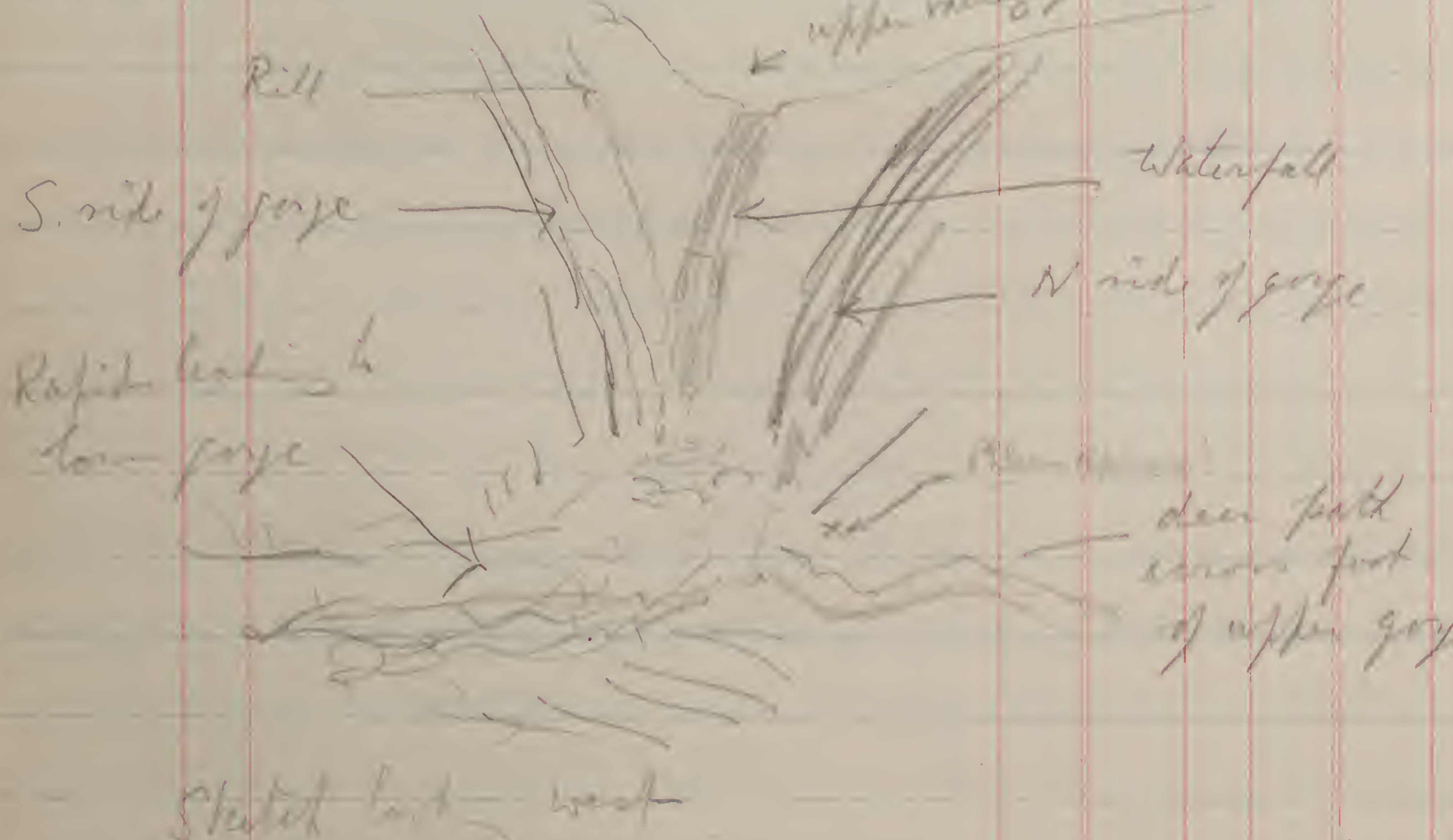
23rd June 1947. A fine day after rain at night, with rain & drizzle from 10.20 AM till about 2.30 PM. Got lift in car to Glen Doll Lodge & walked to foot of Jock's Road, then crossed the White Water & spent some time without success searching for Linnaea borealis in the old station near the birch trees taken at foot of Craig Maud on right bank of White Water just below the gorge. Then worked up the cliffs of Craig Maud & [illegible] [illegible] & later worked right up along the face through to below the great patch of Dryas (see p. 202) and then west of the [illegible]. At base of these cliffs saw all the plants noted on 19th (p. 202) & also one patch of Pyrola secunda on ledge with Carex atrata in the [illegible] with one spike of flower & one of last year. Just as we approached the Dryas patch & where a recent slip had taken place I found a plant of Astragalus alpinus & just above it & again 20 yards further SE saw plenty of the plant, but none yet flowering. Returned to foot of gorge of the White Water for tea at 4 PM but again failed to locate Linnaea borealis, crossed the Water & back to car at The Lodge at 6.30. In evening rain I slipped between a rock & my feet & collecting bottle fell on the rock & broke after 27 years use!

24th June 1947. A dull wet day with hill fog. Rain or drizzle practically the entire day from 8.30 AM until bed-time. Too wet to go anywhere in the mountains, so we took train in afternoon to Kirriemuir, doing some shopping for journey home to Dublin on Monday 30th. Had afternoon tea at The Airlie Arms Kirriemuir which is a very nice little hotel, & on our way back to Clova by 5 p.m. from "Kirrie" with a further supply of [illegible]. Posted home another box of plants & a box of insects.

25th June 1947. A beautiful day, with much hot sun & gentle, but fresh & cooling W-NW breeze, after a very wet night. Rivers & burns all in spate & marshy spots flooded, yet most of the uplands easily traversed dry-shod. Got lift in car to Glen Doll Lodge, 10.30 AM, & walked up the path (to Braemar) as far as summit of Jock's Road gorge & then cut across to the gorge of the White Water just below where it falls over into Cup of

25.6.47, cont. Little Culrannoch, cont.

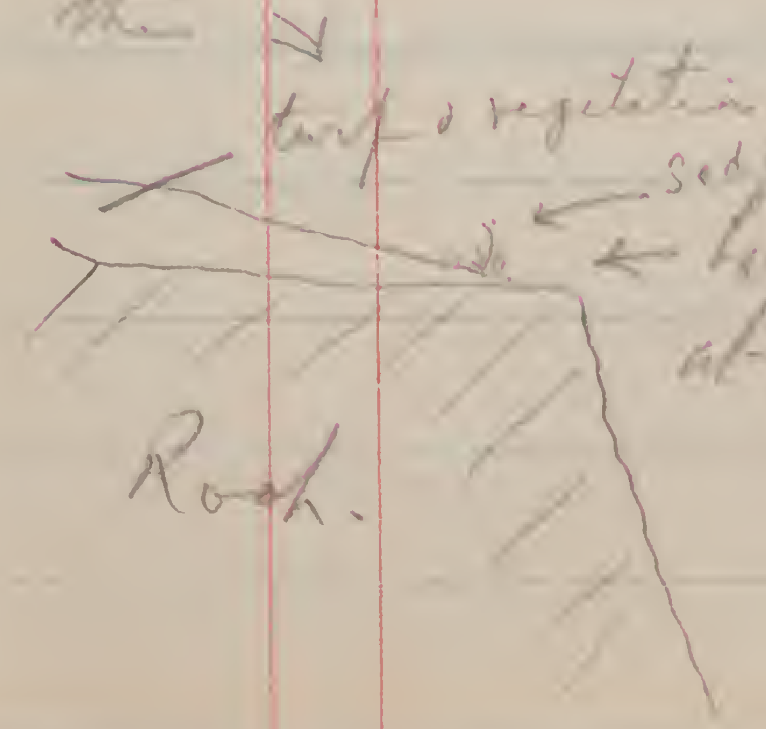
the gorge from the upland plateau (alt. c. 2200 ft.) passing on the way some sedge-filled hollows, where the sedges were just showing flowers & possibly belonged to C. aquatilis x Goodenowii. Tried to go up the White Water [illegible] below the fall & at head in upper gorge but too flooded, though here found specimens of Alchemilla alpina in flower on sides of gorge. Very nice ground in the gorge below fall, but could only be worked when river is low.


upper valley of White Water
Rill
Waterfall
S. side of gorge
N side of gorge
Rapids leading to lower gorge
deer path across foot of upper gorge

Sketch looking west

25.6.47, cont. Little Culrannoch, cont.

Crossed the White Water about a furlong above the fall where it is an ordinary moorland burn & made for some rocky crags to W. (S. side) at alt. of about 2,500 ft., where had lunch at about 1.15, passing more sedge-filled hollows of undetermined species like small aquatilis — saxatilis — or large Goodenowii possibly the "caespitosa" of W. Gardiner in Flora of Forfar. After lunch proceeded northwards along cut scarp where much Oak & Beech Fern, with Carex rigida & Trientalis & [illegible] Alchemilla alpina & soon came on the clump of the Parsley Fern (Cryptogramma crispa) under a big rock (took one last year found!) close to & below the last remnant of a very large snow patch. Fifty yards further along on top edge of another big rock found a small sedge with no flowering spikes with 2-3 ♀ spikelets & no male flowers showing, which may prove to be ~~[illegible]~~ mostly starved C. rigida! Specimen in situ is like this →


turf & vegetation
sedge
low ledge at edge of rock
Rock.

Brought small piece of clump to grow & flower, in order to try, & some C. rigida for comparison from same place.

[This flowered in 1950 & is rigida! A.W.S.]

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25th June 1947, cont. Little Culrannoch & Tom Buidhe

Rounding shoulder of hill dropped down into a large area of marvellous marshy bog full of sedges, but none but Goodenowii (?) yet showing flowers & while Daisy went west to some stony ground on the watershed between a tributary of the White Water & Glen Cannes, I went straight across the bog making for Tom Buidhe reputed to be the home of Lychnis alpina. A pair of Dotterel kept me company at this place, standing on hillocks & making their plaintive cry which Daisy says is like a rusty door-hinge & I say resembles a squeaky hand-pump. When I rejoined Daisy she had specimens of Sea Pink, Cochlearia & Cherleria sedoides, which made me suspect that she might have found the habitat for Lychnis alpina but we nevertheless continued the ascent of Tom Buidhe, under the impression that its summit (Ord. Survey ht. 3140) must correspond with Wm Gardiner's "Little Culrannoch" summit, altho given by him as 3,200 ft., crossing some heavy peat with much Cloud Berry & Vaccinium uliginosum & then coming out on a dry

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25th June 1947, cont.

slope where in places Carex rigida was the dominant & almost only vegetation. Repeated search on summit failing to produce any plants of interest beyond lots of Luzula spicata & Juncus trifidus, we eventually returned to Daisy's stony ground, but not before we had enjoyed the magnificent view over head of Glen Callater to Lochnagar on the right & in the distance the whole range of the Cairngorms from Braeriach, the Lairig Ghru & Ben Macdhui eastwards — this being just one day short of the eighth anniversary of our ascent (with George) of Braeriach on 26 June 1939. To the west we looked into the Glen of Caenlochan with Glas Maol behind it. Coming down S slope of Tom Buidhe, ~~[illegible]~~ where Trientalis was in flower at 3000 ft., on [illegible] ridge, the first plant I saw after the Sea Pink, was one of Lychnis alpina. Over about an acre of grey stony waste the Lychnis was abundant & though very stunted [illegible] & even [illegible] none could be found in flower & it was evident that a vast snow field had covered this area until comparatively recently. With the Lychnis

25.6.47, cont. Little Culrannoch, cont.

grew Cherleria sedoides, Arenaria, Cochlearia sp. (the "groenlandica" of Gardiner's "Flora of Forfar") some plants of which had pinkish purple flowers like those usually borne by C. danica & others — the majority — had pure white flowers; Juncus trifidus also occurred & some grasses (not in flower, though one taken to grow).

This stony ridge forms the watershed of the three burns — a tributary of the White Water draining E, a tributary of the Canness draining west, & the Little Culrannoch Burn draining South which in about 3/4 of a mile it meets the Feula Burn & turns east & drops into the gorge of the White Water. At the head of the Little Culrannoch Burn is a vast area of springs filled with sedges & amongst them Daisy found a large patch of the coveted Carex rariflora, while in the damper places grew an alpine form of C. curta (N.B. identified by Daisy) & a puzzling plant of the aquatilis - Goodenowii group (only just coming into flower!) possibly the "Carex caespitosa" of Wm Gardiner's "Flora of Forfar". From all this it is evident that Gardiner in referring to the "Summit of the Little Culrannoch" did

with which grows a [illegible] Carex [illegible] [illegible] by Mr Hubbard of Kew from [illegible] [illegible] [illegible] [illegible] [illegible] (as Aquatilis [illegible]) [illegible]

25.6.47, cont. Little Culrannoch, cont.

not mean the summit of Tom Buidhe, but the ridge at head or summit or source of the Culrannoch Burn, though his altitude — "3200 ft" — would lead one to believe he intended Tom Buidhe, alt. 3140.

The actual altitude of the locality for Lychnis alpina cannot I think be more than between 2,800 & 2,900 ft.

Leaving this area reluctantly, about 3.45, we proceeded down the Little Culrannoch Burn, over vast wet area of almost pure sedges — a type of ground I have never seen before! — to its junction with the Feula & then down the latter burn to its fall into the White Water, which I think Wm Gardiner refers to as "The Wand of Feula". We had tea on rocks at head of the Wand of Feula & left there at about 4.50, crossed the White Water at same place as in morning, above the fall in the gorge, reached the Braemar path & got back to meet the car at Glen Doll Lodge at the exact appointed time of 7 P.M., after a memorable day.

During day saw very few Salices, but

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25.6.47, cont. Little Kilrannoch, cont.
met with two plants of a very curious elongate-leaved, downy, form on the rocks at the lunch place, at 2500 ft. W. of the White Water, & saw several bushes by the Fee Burn where it cuts through the rocky ridge before falling into the gorge of the White Water & took specimen from a ♀ bush just above where we had tea.

On outward journey & just before we left Jock's Road at ± 2000 ft. saw a smallish Fritillary Butterfly, which could have been either euphrosyne or selene.

Took one specimen of sawfly with fingers practically on the summit of Tom Buidhe & several Aphodii at the lunch place.

222.

26th June 1947. Another very fine day, with fresh S.W. breeze & much less sun.

Got lift in car to Glen Doll Lodge at 10.20, crossed the White Water & went up its right bank to junction with the Fee Burn; turned up the Fee & crossed it, collected specimens from the bushes (♀) of the "Green Salix", & followed the little (stream) opposite the big Salix-fan W. of Craig Rennet & then went up the long green slope to cliffs to look for Oxytropis campestris beginning E. of the green slope. After lunch we worked gradually westwards & as we went the flora grew richer till just after passing over a talus or scree of fine purple stones we came to a cliff with plenty of the Oxytropis & many fine clumps in flower, these looking at a distance just like creamy-white clumps of Anthyllis Vulneraria. Many clumps & many seedlings seen all over the lower parts of this cliff & many other rare plants seen here including the following:— Draba verna, Sisymbrium Thalianum (only one plant of each seen & that in seed!), Silene acaulis, Sagina alpina, Cerastium (vulgatum?), a small form, with minute flowers, divided petals, on rabbit-cropped grass slope below cliffs;

26.6.47, contd. Corrie Fee, Clova, contd. Geranium sylvaticum, Oxytropis campestris, Lathyrus montanus (very large form on cliffs, with thin leaflets; some ca 2 ft. high!), Alchemilla spp., Rubus idaeus & saxatilis, Geum rivale, Rosa sp. (canina group), Prunus avium (? grows on screes below cliffs – some old trees, some young bushes), Epilobium angustifolium, Sedum rosea, Saxifraga nivalis & S. hypnoides & S. oppositifolia, Galium boreale, Senecio jacobaea, Carduus palustris, [illegible] & lanceolata all on slopes below cliffs, Hieracium spp., Gentiana campestris (in bud)?, Lycopodium?, Oxyria, Polygonum viviparum, Salix spp., Populus tremula, Sorbus aucuparia, Betula (all on cliffs near Oxytropis at ca 1800 ft.?), Juniperus communis, Orchis mascula. No Juncus or Carex of special interest, but several interesting grasses taken, including a fine robust Poa on ledge of cliffs, Poa alpina seen, Festuca rubra? 1/2 [illegible] high on scree slope; Avena pratensis & alpina? Holly Fern, leaf of Woodsia?-like fern, but no trace of sporangia. = Cystopteris fragilis juvenile!?

26.6.47, contd. Corrie Fee & Corrie Sharroch, contd. At 2.30 crossed head of Corrie Fee & went up line of cliffs east of waterfall & round [illegible] between Corrie Fee & the eastward upper corrie, which Mr Colville calls Corrie Sharroch [illegible] & [illegible] attempted to find Carex alpina but once again failed. While rounding the above [illegible] & crossing base of the same came on a big patch of Lycopodium annotinum, non-flowering material with some fruiting bodies. Had tea at 4 P.M. & then climbed some gully [illegible] but [illegible] up took a side gully to W. of main gully, very steep & very slippery (wet) near top, but we got up & out on the plateau & then [illegible] & home by the deer-track down Corrie [illegible].

In upper gully found 2 small Carex atrata of a small form & normal colour with a drooping (? ♂) spikelet well below the normal band of spikelets at top; also saw some nice Salices including the narrow-leaved silvery Lapponum & the ovate-leaved lanata? & a possible hybrid between last & reticulata. On way up main gully saw about six plants of the little fern thought to be a Woodsia on 6.47 = Cystopteris fragilis juvenile!!

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but these quite glabrous — some with fruit & some not.

During the day saw ♀♀ of Bombus lapponicus in several places attending flowers of Lotus corniculatus; also saw several ♀ B. lucorum [illegible] down.
Found quite a colony of House martins breeding on cliffs, with Oxytropis, where a good dry overhang occurred, which accounts for repeatedly seeing the birds up to 2700 ft in this area on previous days.

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27th June 1947. A very fine morning with only light wind & few clouds, but afternoon clouded over & a slight drizzle from 5 to 7 PM in hills, then dull & fair, thunder somewhere to South.

After an early breakfast got off in car to Glen Doll Lodge at 9.15 – 9.20 & set out for Caenlochan at head of Glen Isla, ca. 7 miles across very rough country, via the [illegible] track & Jock's Road, then across the White Water, past Lychnis alpina habitat by head of the Little Culrannoch Burn to head of Glen Canness, where had lunch at 1 PM by burn just E. of Canness Burn & just before it drops into the Glen. After lunch proceeded across slopes of Cadderg, over 3000 ft. ridge to head of Caenlochan Glen, over very rough ground at first which so delayed us that it was nearly 3 PM when we reached head of Caenlochan; we therefore decided it was too late to descend & explore the cliffs of the glen & so turned northwards & back to Canness Burn where had tea a little before 4 PM. After tea set off across moors for The Dun Hillocks, passing on the way the same

227.

27.6.47, cont. Clova to Caenlochan & back

of the Fiala, Dounalt, & Fee Burn, around all of which immense snow-fields had lain until quite recently & the vegetation not yet started growth properly. On all this ground we saw the tracks of Red Deer & [illegible], Dotterel & at the Lychnis station in outward journey startled three young birds which flew about wildly making a shrill whistling noise, like a young [illegible] letting off steam (eggs of Dunlin!), after crossing the Fee Burn kept along NE flank of Mayar by deer track & so to head of the deer track down Kilbo Corrie to Glen Doll Lodge, there picked up by car at 9 P.M., but we could easily have been there by 8 P.M.

Greenshanks! probably!!

First stopped to look for plants after crossing The White Water, where some of the so-called Carex aquatilis was in flower in a marsh associated with a form of Goodenowii; then ascended NE [illegible] of corrie (where Dandy & I were on 25th) & found a large patch of Lycopodium annotinum on a [illegible] near its base & some Carex vaginata on its wet slopes. Lychnis alpina still not in flower at head of Little Culrannoch! By tea [illegible] place

228.

27.6.47, cont. Clova to Caenlochan & back

on a rocky scarp above the burn many plants of a Hieracium (? H. alpinum) with one large black head on each rosette. In crossing more N of bedding of Caenlochan much more ground covered with Cloud Berry, Vaccinium uliginosum, Lycopodium [illegible], etc. & in one damp place Dandy found an abundance of Carex rariflora. Ascending from top of Caenlochan Glen went up a small rill which issued from a large snowfield & on its edge found Sag. [illegible] & small form of Carex vaginata, & in one boggy place near & above this took several [illegible] sedges, one of which may be the miniature C. pauciflora No!!, & a very [illegible] after tea saw Juncus triglumis in marsh by a rill & at head of north [illegible] took a [illegible] rush which at first sight looked like J. triglumis, but which is probably only stunted J. [illegible].

During return journey also collected several living specimens of Carex rigida & in one marshy spot near source of Fiala Burn, a very strong stocky sedge of the Goodenowii × aquatilis group, with very broad stiff leaves — all the plants in this spot being alike & one brought home to grow.

729.

27.6.47. cont. Clova to Caenlochan & back. During day saw much Juncus trifidus on the high ground, especially on that between the Canness Burn & Caenlochan & on the rocky tops or near them & S.W. of the Corrie Fee, where it is associated with Carex rigida & Luzula spicata — the last also seen frequently during the day.

Bombus lapponicus ♀ queen here & there in early part of the day on moors at Vaccinium flowers & a ♀ Andrena lapponica taken with [illegible] moving lazily on a stone on Jock's Road at over 2000 ft. Two Fritillary Butterflies seen near head of Jock's Road, one size of small aglaia & the other size of euphrosyne.

Coleoptera. Calathus melanocephalus (typical), Loricera pilicornis.

730.

28th June 1947. A very warm day with little wind in forenoon, much sun, some cloud, & very [illegible] only fresh in afternoon & the little breeze; after [illegible] thunder heard in distance.

Did not go up [illegible] but the rest [illegible] along from Loch Brandy [illegible] some [illegible] by [illegible] the [illegible] & [illegible] for some [illegible] on [illegible] [illegible] [illegible] taken [illegible] [illegible] [illegible]

Saw a few workers of ♀♀ of Bombus lapponicus on Vaccinium (& Lychnis viscaria) & on Lotus on cliffs N. of Loch Brandy; also 1 ♀ of sp.? which appeared mainly black with orange red tail & was certainly not lapidarius, but possibly derhamellus or pratorum. [illegible] saw several ♀♀ of Bombus terrestris & [illegible] (expected outlet of L. Brandy). (On summit of The Snub, N.E. of Loch Brandy, the small black [illegible] were ^{common} frequent but difficult to catch in a high wind blowing across the ridge at the time (5.30 P.M.).

After lunch at 1 P.M. by outlet of L. Brandy found a larger than typical ovate form of Limnaea peregra [illegible]

28.6.47, cont. Loch Brandy & Clova, cont.

near the ridge (? C. capill.) [illegible] [illegible] & [illegible] flowering & mainly [illegible], including S. [illegible] ?, [illegible] ? & [illegible] ?, with [illegible] [illegible] in [illegible] the Loch at outlet, went round SW – W – NW side of loch, & after seeing Lobelia, Sparganium ?, Myriophyllum, Scirpus fluitans ?, & (Hypericum elodes?) millions of tadpoles of all sizes in the little S.W. [illegible] (rejoined the loch by the outlet), went up gradually up cliffs, N & NNW of the Loch, out on the plateau near the Snub, & then to fell & home to hotel.

Many nice plants seen on the cliffs, but mainly in a few very small areas where water trickled down the cliffs, these included [illegible] alpinum, [illegible] alpinum (two clumps only), Geranium sylvaticum, Epilobium alpinum & E. alsinifolium, [illegible], Sax. hypnoides, aizoides, Sax. stellaris & Sax. oppositifolia, Juncus triglumis, Selaginella, Sedum rosea, Potentilla crantzii – one plant with flowers – a very beautiful plant! –

On ridge of the Snub, ca 2,600 ft. alt., noted [illegible] [illegible] & Juncus trifidus seen, & on lower ground on way up to [illegible] [illegible] many areas where Cloudberry was abundant & several already with well-formed fruit.

28.6.47. Clova & Loch Brandy, cont.

Took the following insects [illegible] [illegible] hotel on way up [illegible] from loch.

[illegible] [illegible].

[illegible] [illegible], [illegible].

C. [illegible] 3. C. cupreus, Cryptohypnus riparius, & Calathus melanocephalus & nubigena.

29th June 1907. A fine hot day, with [illegible] hot sun.
Collected before =1 & after =2 afternoon tea, around & [illegible]
end of road, in hollow of [illegible], about ½ mile E
of (Hotel) hotel.
Taken at 1. Coleoptera Rhagium mordax ♂ & ♀ in cop. on a stump.

29th 07 cont. [illegible] [illegible], [illegible], cont.

2 12th July 1947. Left Milton of Glen Lyon by car at 6.30 A.M. (D.S. Time) & caught 7.20 train at Killin; changed at [illegible], Perth, Carlisle & Preston, & arrived at Liverpool 6.0 P.M. Went on board the S.S. Leinster at 8.15 (B.S. Time) & reached North Wall, Dublin at 7.30 on 13th July. Home for breakfast 8.30 A.M.

END OF SCOTTISH HOLIDAY 1947.

For information about plants of Glen Lyon area write to Miss Ursula K. Duncan, Parkhill, Arbroath, Angus.

6th July 1947 A small ♀ Perilissus pallidus taken by F. O'Mahony on window of the Clontarf Boat Club, Dublin: antennae 35.

7th July 1947 A large ♀ Mesoleius taken by me in Mrs. D. Wettstein's back garden, 10 St. James's Terrace, Clonskeagh, Dublin: ant. 35.

13th July 1947. The first really fine summer day since our return from Scotland. Very hot sun almost all day, strong warm W.-SW wind. Rode, then, to Gollierstown, Grand Canal, Co. Dublin & collected by sweeping in three areas, as follows, but sun too hot & wind too strong for small insects.

1 = Edge of canal (& ~~the~~ first two grassy banks, S. of canal & E. of Gollierstown Bridge.

2 = Edge of third grassy bank, W. of station 1 & W. of fence.

3 = Edge of old grassy bank on N. side of canal & opposite station 1.

Gollierstown, Co. Du.

Insects taken at 1. [18 mounted from 1 & then labelled 13.7.47.]

Cryptinae. 14, including [illegible] [illegible]: not id.

[illegible] of [illegible], ♀, ant. 15, very short [illegible], 15.

[illegible] dorsalis 3: not id.

[illegible] [illegible] 1: not id.

Metopiinae 7: [illegible], [illegible], [illegible] none id.

13.7.47 cont. Gollinstone, Dv, cont.

Taken at 1, cont.

Bracon [illegible] 2 ♂♂. not std.

Spathius like tetraeum 1 ♂, very small, smooth propodeum, pale stigma. [illegible]

E. [illegible] of pallipes 1 ♀, ant. 33.

Opius [illegible] 5 (♂♂ & ♀♀): none std.

O. of [illegible] Hal. 1 ♂, ant. 27.

O. of [illegible] Hal. 1 ♀, ant. 34.

Pentapleura pumilio 7 (♂♂ & ♀♀): not std.

[illegible] 1 tiny ♂. not std.

Phaenocarpa [illegible] 1 bent ♀, at the end of 2nd [illegible] lot, ant. 44.

[illegible] [illegible] 1 ♂. not std.

A. (Synaldis) temporalis m. ♀, ant. 16.

Dacnusa [illegible] ♀ 2 ♂♂; 1 std. ant. 34. D. elegantula ♀, ant 28

D. aphanta ♂, ant. 27. D. [illegible] but nearly glabrous [illegible] & red legs ♂, ant. 27.

D. [illegible] 7 (♂♂ & ♀♀): none std.

D. [illegible] 1 ♀ not std. D. [illegible] [illegible] ♀, ant 22.

D. (G.) [illegible] 2 ♂♂, ant. both 27, head transverse! Also 2 small ones ? this sp. {1 ♂, ant 26 / 1 ♀, ant 20}

Chaenusa conjungens 1 ♂, ant. 23.

Coelinius elegans? ♂, ant. 42

[illegible] [illegible] 1 small ♀: not std.

Aphidiinae spp 2 : not std.

13.7.47 cont. Gollinstone, Dv, cont.

Taken at 1, cont.

Proct. 2, none std.

Chalcid. 1 : not std.

Cynipid. 7 : not std.

Taken at 2 [[illegible] 17.2.1951]

Cryptinae. 6 : none mounted.

Coleoptera
Dromius [illegible]
= [illegible]
2 examples!

Orthostigma minutum ♀, ant. 22.

Metaeurus [illegible] ♀ ant 25} Coelinius [illegible] ♀, ant. 20.

Pentapleura pumilio (♂♂ & ♀♀) [illegible] : none std.

Dacnusa [illegible] 1 small ♀. And [illegible] not std.

D. [illegible] 1 ♂. not std. D. [illegible] ♂, ant 30.

D. nigricapoxa a large ♂, ant 28.

D. (G.) {glabriuscula ✓ – one of each! / [illegible] ✓? 2 ♂♂, both with 24 [illegible] but [illegible] different, the smaller with much [illegible] ... that with 24 [illegible] and [illegible] at 1, the other with [illegible] [illegible] [illegible]. — 1♂, 1♀

Chaenusa conjungens ♂, ant 24.

C. [illegible] ♀, ant. 20 {same sp. as taken at [illegible] [illegible] July 1937.

Coelinius [illegible] ♂, ant. 43.

Trioxys [illegible] sp? ♂ & ♀, ant 13 & 12.

Aphidiinae spp 2 · not std.

This is a ♀ glabriuscula with [illegible]
A.W.S. 19.4.1957

[illegible] checked!

18.7.1947, cont. [illegible] lamp, C. [illegible], cont.

Taken at 3 [3 mounted from 3 & three labelled on 17.3.1951!]

[illegible] 2: not set.

[illegible] 1♂ ♀ rid worn; not set.

Canidia 1♂ ♀, kept; set 19

[illegible] [illegible] 2♂♂: not set

[illegible] [illegible] ♂ ♀ kept; set 24

[illegible] [illegible] ♂ not set.

[illegible] [illegible] 2♂♂, 1 [illegible] carried; set 26

[illegible] ½
[illegible] 2 } none set.
[illegible] 1

18 July 1947. Taken on window in [illegible] [illegible], 14 Clareville Rd, [illegible] [illegible] 1♂ (set 24) & a large Chalcid (cf. Torymus) ♀ green, with spine beneath hind femora = Diomorus armatus Boh. fide M.W.R. de V.G. 1951.

19th July 1947. Taken in house at 10 P.M. running on newspaper containing dried plants brought from Scotland (Glen [illegible]) but probably a local insect from 14 Clareville Rd

[illegible] [illegible] ♀, set 27, head crushed!

19.7.1947, cont. [illegible] !!

On this day a fresh ♀ [illegible] came to the window of my room in Museum, from [illegible] lawn, as has happened about this time nearly every year since I can remember or became interested. Regret that I have not always recorded the date in my diaries!

22nd July 1947. Spent part of four mornings [illegible] in back garden & [illegible] [illegible] the [illegible] on a [illegible] [illegible] (last year): [illegible] the species [illegible] not [illegible] of any [illegible] in early and of July, but except one [illegible] going to Scotland on 28th June, I have seen none [illegible] on 2nd July & on [illegible] [illegible] (about) that the [illegible] [illegible] has no [illegible] this [illegible] that if any had appeared it must have been during my absence, [illegible] the [illegible] seen today suggest merely a [illegible] [illegible] though possibly a second emergence.

During the previous week I have seen several ♂♂ & ♀♀ of Megachile centuncularis & willughbiella in the back garden & on 21st a ♀ of former on flower of Geranium pratense in front garden — 14 Clareville Rd

28th July 1947. A minute, fat, almost wingless Chalcid found in garden 14 Clareville Road on plants recently brought from Scotland

30th July, 1947. Sunny, hot day with gentle S.W. breeze & small white cum., some cloud after about one o'c.

Driven to Castle Howard, accompanied by [illegible], by Rev. K.M. Dunlop, who went to look for Purple Hairstreak Butterflies but saw none — too early I think. I collected in the woods at places two marked 1 & 2 as follows:

Castle Howard, W1.

1 = Woods between avenue & railway, ½ mile S. of gate near the meeting of the Waters. 12 noon till 1.30 p.m.

2 = Woods along railway ½ mile S. of [illegible] Lodge, [illegible] & walk round along railway at same place, & field between railway, & river from nr. cutting to bridge over railway ½ mile S. of lodge.

Insects taken at 1. [30 mounted & those labelled on 1.2.1951!]

Ichneumon sp. ♂ small, black & yellow: not [illegible].

Rhogadinae ♀: not [illegible].

Cryptinae 1 & 2 others = [illegible] sp. small ♀, ant. 22

Phygadeuon sp. very small, ant. 17.

Pimpla ♂ & ♀, latter only [illegible] = P. contemplator? ant. bitten off

30.7.47, cont. Castle Howard, Y.N.

Taken at 1 cont.

[illegible] [illegible] ♂ elongate old, very black metallic, ant. 49.

Stenichneumon [illegible] 1 very highly [illegible] not [illegible]

Homotherus flavicornis? ♀, ant 25, [illegible] coxae yellow [illegible]!

[illegible] ♀, ant. 30.

Amblyteles ♂ = [illegible] ♀, ant. 49.

Campoplegidea [illegible] = [illegible] sp. ♀, [illegible]

but [illegible] AWS 1.3.51!

Colocentrus [illegible] 2 ♀♀, [illegible]

Rhyssa [illegible] ♂ [illegible], [illegible]

[illegible] [illegible] ♀ ant. 34.

[illegible] [illegible] ant. 16.

Ophion [illegible] ♂, ant. 34, and 4 others, of which only one [illegible] =

O. [illegible] ♀, ant 30, [illegible]

Adelognathus [illegible] ♀, ant. 29.

[illegible] [illegible] Hal. 6 large ♀, ant. 29. Very nice! AWS 1.2.51!

[illegible] sp. 10 = G. [illegible] ♀, very nice! Continue 27-28 [illegible]

G. cf. [illegible] 1 ♀, [illegible], ant 20. G. sp. ♀, ant 20, ♂? ant 24.

G. sp. ♂, [illegible] legs, ant 21. G. sp. ♂, ant. very long, 23.

G. sp. ♀, dusky legs; very [illegible], short, [illegible]; ant 21; ♂?, ant. 23.

G. fuscicornis Hal.? ♀, ant. 16.

G. ([illegible]) sp. ♂ dark legs, ant 22.

243

30.7.47, cont. Castle Howard Wd, cont.

Taken at 1, cont.

Braconids of which there 1♀ — the only one — [illegible] — but only 22, very extensive series with Bryconids, 8♂.

[No Aphidiids!]

Proctos. 16: 4 mounted!

Chalcids 7. None mtd

Cynipids 1. Not mtd

Beetles 9, including a yellowish jumper on plant of Solanum crispum intermedia growing on wall of Castle & when known it appeared to be [illegible]. (fide Mr [illegible])

=

[Also a golden-pubescent jumping weevil taken at 2! q.v.]

Beetles given to F. [illegible]!

244

30.7.47, cont. Castle Howard, Wd, cont.

Taken at 2. [all mounted from 2 & then labelled in 2.2.1951.]

Phaeogenine ♀: not mtd

Cryptines. 8: only 1 mtd. = Atractodes — ♀, mtd 24.

Pimpla [illegible] group, small ♀, [illegible] mtd 20.

Stilpnus ater ♂, mtd 22

Bassus [illegible] ♂, mtd 18.

Homocidus pallipes ♂, mtd 23

Stenomacrus [illegible] 1♀, [illegible]

Adelognathus tricornis ♀; mtd [illegible]; [illegible]

Exochus [illegible] dimidiata 1♂, mtd 19; 1♀, mtd 20.

Ctenopelmatid 1♂: not mtd

Porizontid 1♀ = same species as taken at [illegible], Castle Wd, mtd 29.
(2) 30.8.1944 + (1) 30.8.1944. Exetastes ♂ see p. 245 →

[illegible] of pallipes ♂. A. [illegible] ♀, [illegible]

[illegible] bidentatum ♂?, mtd 37.

Microgaster flavipes Hal. ♀.

M. globatus? ♀.

Microplitis cf. [illegible]? ♂

30.7.47, cont. Castle Howard, Yorks, cont.

Taken at 2, cont

Euplectus [illegible] 1, not retd

Euplectus [illegible] Hal. ♀, ant. 30

O. [illegible] Dom. 2 rather small ♀♀, ant. 40 & 43; & also a ♂ with broken antennae, [illegible] ♂, [illegible] this [illegible]

O. [illegible] not retd.

O. [illegible], 2 small ♂♂ with only faintly [illegible] ant. 20 & 24.

O. cf. stenops [illegible] 1♀, ant. 23

O. [illegible] Stelfox ♀, ant. 24; also a very small ♂, ant. 22.

O. femoralis [illegible] ♀, ant. 27: a lovely specimen!

Exothecid? "Exothecus" crenulatus [illegible] ♂, ant 34.

[illegible] 2 ♂♂ 1 retd has 23 seg. ant

[illegible] & [illegible]; mostly small, with dark legs, but some large with pale legs, & small: none retd.

[illegible] & [illegible] 1 ♂ [illegible], not retd

Chorebus [illegible] ♂ in grass field outside railing: ant. 20

Aspilota aff. 14 = A. denticulata ♂ & ♀ rather small ♂, ant 2[illegible]

A. denticulata n. 1♂, 1♀, both small, ant. 20 & 18. A. [illegible] Hal. ♂, ant 18

A. [illegible] ♂, dark legs, large head, with dimple. A. [illegible] } {dark legs, dimple, [illegible] ant 20, 21, 21. 3 very small ♂♂.
ant. 21.

A. cf. small [illegible]? ♀, ant 20. A. cf. [illegible]? small ♂, ant. 21.

A. cf. [illegible] 1 very small ♂, ant. 26. A. [illegible] 1 beautiful ♂, ant. 18.

A. [illegible], ♂, ant. 18 A. cf. [illegible]? ♂, no dimple, dark legs,
ant. 22.

30.7.47 cont. Castle Howard, Yorks, cont.

Taken at 2, cont.

Dacnusa [illegible], [illegible], [illegible], & [illegible] all in grass field outside railing & probably in the [illegible] [illegible] at south [illegible] of field [illegible]: none retd.

"D. affinis 2" — 1 very [illegible] legs [illegible], ♂, ant. 26.

This ♂ has very stout deep reddish legs, [illegible] antennae [illegible] one or two segments [illegible] than real affinis, & [illegible] subspecies of n. Tobias!
R.N.S. 6.3.1951.

Oenone mandibularis 1(♂) [illegible] (? affinis) [illegible] ant. 28 not seen by me since [illegible] taken [illegible] on 24.7.1929.

Aphidius aff. [illegible] ♀, [illegible].

Trachyusa cf. aenea Hal.? very large ♂, ant 13.

[illegible] abundant, especially in grass field: 3 only retd
=

Chalcids equally abundant in [illegible] places: none retd

Cynipids 2: not retd

Golden pubescent jumping weevil =

1.8.1947
Phygadeuon [illegible] taken
♀ ant. 24
E. O'F[illegible] at Blackdown, Devon
Hemiteles [illegible]
♀, ant 19, taken by
[illegible] in window,
[illegible], [illegible]

3rd August 1947. A very fine day with mostly hot sun & pretty SE.–E breeze, after two days with wind & heavy rain at times. Many hymenoptera out, but flies not numerous & only a few [illegible] seen.

Did not go out in morning, but after lunch left home at 2 P.M. on bike & rode to Gollierstown & found canal & collected till 7 P.M. in three areas as follows: —

Gollierstown, Co. Dublin.

18. 1 = S. side of canal just W. of Gollierstown Bridge & N. corner of small (1st) quarry hole S. & W. of bridge & separated from canal by high [illegible].
18. 2 = W & N. sides & E. end of 3rd quarry hole (beyond wire fence) & S. of canal, 1/8 mile W. of bridge.
18. 3 = mainly around quarry hole N. of wall on N. side of canal & nearly 1/8 mile W. of bridge — nearly opposite 3, but not quite.

Insects taken at 1. [18 mounted from 1 & these labelled 18.3 1931.]

[illegible] 5, including [illegible] (2): not mtd.

[illegible] vestitale ♀: not mtd.
[illegible] minuta? ♀, ent 17, small smoky wings, [illegible].
[illegible] ♂, ent 39

3.8.47, cont. Gollierstown, Dublin cont.
Taken at 1, cont.

[illegible] sp.: not mtd.
[illegible] pallidipes ♀ not mtd.

Bracon communis ♂, ent. 26.
[illegible] ♂: not mtd.
Opius [illegible] ♀: not mtd.
O. [illegible] 1 ♂ ♀ not mtd.
[illegible] about 3 dozen (♂♂ & ♀♀): not mtd.
[illegible] (Roger) = [illegible] Hal. 5 large ♀♀ all taken in E. corner of 1st quarry hole [illegible] ent. 30, 31(3) & 32.
1? [illegible] ♂, ♀: not mtd.
[illegible] longicaudata 6. D. gilvipes 1♀
D. [illegible] prop. other than last: about 2 dozen.
D. (?) affinis 6 (all ♂♂)
D. (?) [illegible] 5 ♂♂, 5 ♀♀.
[illegible] 12 ♂♂, 6 ♀♀.
none mtd.
[illegible] subjectum ♂: not mtd.
[illegible] ♂ not mtd.
[illegible] nr. rectus ♀, ent 12.
[illegible] sp. 10: 1♀ mtd. only, ent. 17, & [illegible]!

3.8.47, cont. [illegible], [illegible], cont.

Taken at 1 cont.-

Proctotrupidae 17 : 5 mtd.

Chalcids 4 : 3 mtd. = Spaniopus dissimilis Walk. ♂ clubbed mid tibiae! fide M.W.R. de V. Graham, 1951.

Cynipidae 2 : not mtd.

Taken at 2. [18 mounted from 2 + then labelled 28.2.1952]

[illegible], small, black = [illegible] ♀

Staphylinidae 5 : 1 only mounted = [illegible] ♀, ant. 18.

Glyptes [illegible] 1♂ not mtd.

[illegible] minutus ♀, ant. 18.

Promethes dorsalis 2♂♂ not mtd.

Meloboris dorsalis, red coxae, ♂, no areolet in forewing; ant. 37

Meloboris sp. 2♂♂, black coxae not mtd.

[illegible] 2 not mtd.

3.8.47, cont.

Taken at 2, cont.

[illegible] ♂, not mtd.

P. [illegible] 12 (♂ & ♀), [illegible] none mtd

[illegible] = [illegible] 5♂♂ 1♀ — ant. 29(1) + 31(2) — ant. 28. — a record capture of the [illegible]! See p. 245 [illegible]!

Ph. [illegible] ♂ not mtd.

[illegible] ? 1♂ 1♀ — ant. 23, ant. 19. [illegible], etc.

[illegible] ([illegible]) [illegible] 1♂, not mtd.

D. [illegible] ♀, ant. 24. D. [illegible] ♂, ant. 27.

D. [illegible] group 8, [illegible] 1 ♀ only mtd, ant. 19 = areolaria? but has no evident [illegible], though [illegible]

D. (G.) affinis ♂

D. (G.) [illegible] 2♂♂, 1♀.

[illegible] 8 (♂ & ♀).

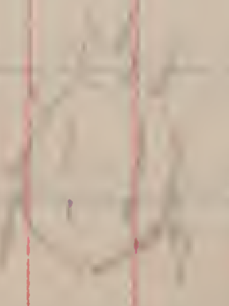
[illegible] sp. 3.

[illegible] 9.

none mtd

Chalcids 6

Dipteron 1 =

Beetle: small black jumper with 2 yellow stripes  = Phyllotreta undulata! A.W.S.

Lepidopteron 1 =

3.8.47. cont. [illegible], DU, cont.

Taken at 3. [3 mounted from 3 & those labelled 20. 2. 1951.]

[illegible] ; 3 mounted =

Hemiteles ♀ ♂ not 20. 4 ♀ ♂ not 21

[illegible] ♀ ♂ not 24

[illegible] 1♂ ; not mtd.

P. [illegible] ♀, not 22. P. [illegible] ♂♂ ♀, not both 24

[illegible] 5♂♂ ♀ ; none mtd.

[illegible] 1♀ ; not mtd.

[illegible] (?) [illegible] not mtd. =
(or Tryphonid) ant 32

Apanteles [illegible] ♀, [illegible] Carab.

Opius [illegible] ♂

Pentapleura [illegible] 12.

[illegible] ♂ [illegible] } none mtd.

Dacnusa [illegible] 1♀

D. [illegible] 3

D. (?) [illegible] 7

D. (?) [illegible] 6

Chaenusa conjungens 4

[illegible] ♂ & ♀, not 25 & 22, respectively

[illegible] var. ♂, [illegible] ; not 26.

3.8.47. cont.

Taken at 3, cont.

Praon [illegible]
[illegible] ♀ } none mtd.
Aphidius spp. & ♀.

Proctos. 1♀ : 2 mtd

Chalcids 3 : 1 mtd. Mymarid =
Cynipid 1 . not mtd

3.8.47, forenoon

Garden, 14 Clareville Rd., Harold's Cross, DU.

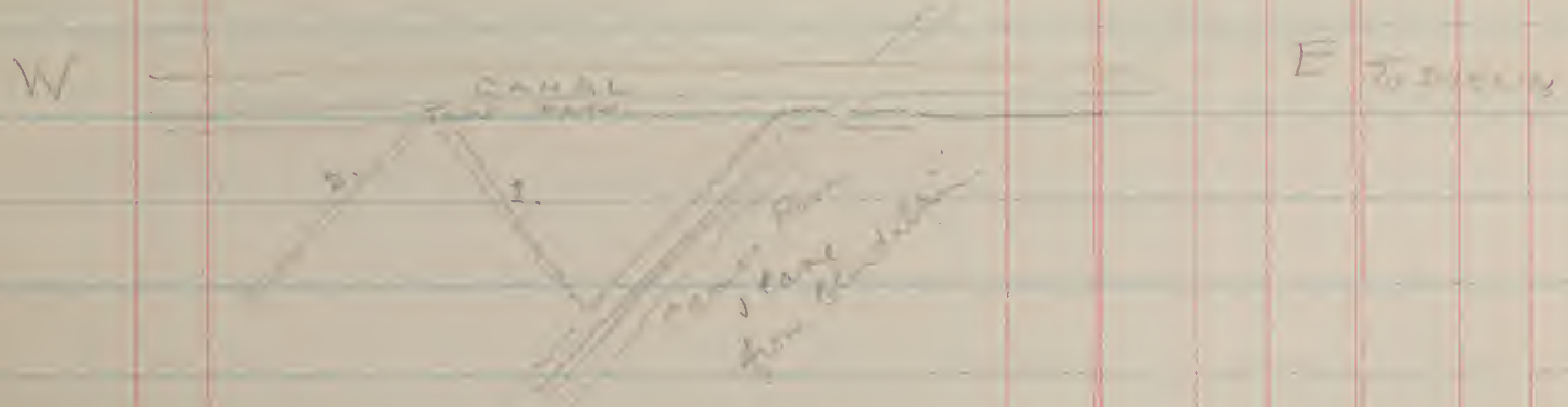
Spent some time in back garden [illegible] & saw many Hylaeus communis ♂♂ and ♀♀ on yellow flowers of [illegible], Sedum sp. & Alyssum, & [illegible] 1♂ Halictus sp. nr. smeathmanellus & 1♀. Spilomena troglodytes taken with another on flowers of big yellow Sedum. Many fresh ♂♂ of Bombus [illegible] seen & 1♀ Megachile centuncularis (black?) on the yellow Sedum, [illegible] ♀, not 35.

Diptera 3 = Eristalis tenax,

6th Aug. 1947. [illegible] day, [illegible] rain at times but mainly fine in afternoon, with intermittent W. SW. breeze. [illegible] via [illegible] to angle between Grand Canal & the Barrow River (& [illegible] from [illegible]), W. of Killeen, Co. DU.
Collected [illegible] the [illegible].

W. of Killeen, DU.

1 = W. side of triangular field in angle between Barrow River & G. Canal (S. side).
2 = Drain at edge (SE) of field S. of canal & just W. of 1.



W. of Killeen, DU

Insects taken at 1. [23 mounted from 1 & those labelled on 21.3.1951]

[illegible] sanguinator ♂, ant 35.

[illegible], ♀, reddish ant = Aethecerus discolor Wesm.? ♀, ant 21.

[illegible] 6, (-2 mtd.) [illegible], Stephanus [illegible] 2 [illegible].

[illegible] ♂ & [illegible] ♂, ant 22, matt abdomen.

[illegible] ? sp. ♂, ant. 23.

6.8.47, cont. W. of Killeen, DU.

Taken at 1, cont.

Pimpla ♂ = {[illegible] [illegible] [illegible] [illegible]}

[illegible], [illegible] & [illegible], 15 ♀ [illegible]: none mtd.

[illegible] minutus ♀, ant. 17. [illegible] ? ♂, ant. 24.

[illegible] ♀: not mtd.

[illegible] ♂: not mtd.

[illegible] ♀: not mtd.

[illegible] ♂, ant. 43; [illegible]

[illegible] ♀♀ & ♂♂: not mtd.

Microplitis [illegible]? ♂ {[illegible] 1951.}

[illegible] ♀, ant. 21

[illegible] ♂: not mtd.

[illegible] ♀, ant. [illegible], ant. 42.

Opius [illegible] ♀: not mtd.

Pentapleura pumilio ♀♀ common, ♂♂ rare: not mtd.

[illegible] 13♀: not mtd.

Phaenocarpa ruficeps, a minute ♂, ant. 22.

[? P. [illegible]]

Dacnusa [illegible] 10♂: not mtd.

D. evadne 1♀, ant. 31.

D. [illegible] ♂, ant. 30; ♀, ant. 28.

D. [illegible] – [illegible] common – mostly ♀♀: none mtd.

6.8.47, cont.   W. of Killeen, Dn., cont.

Taken at 1, cont.

Ephedrus plagiator ♀; ant 9.

Praon [illegible] ♀, ant 20, small specimen.

[illegible] 3 ♀♀ not ntd., ant 13.

Trioxys [illegible] ♀, ant. 12.

Aphidius off. the [illegible] about 35 in number: two only ntd. =

A. ervi? ♀, ant. 19.

A. rosae? ♀, ant 18.

Proctos ♀: 2 ntd.

Chalcids 12: none ntd.

Cynipids 3: none ntd.

7th Aug. 1947. Nemeritis canescens [illegible], ♀, ant: [illegible] taken by F. O'Mahony in his room — [illegible] — no doubt out of one of his samples of cereals!

6.8.47, cont.   W. of Killeen, Dn., cont.

Taken at 2. [Only mounted from 2 + those labelled 23.5.1951.]

[illegible] 12, including [illegible] [illegible] [illegible] – 1 only ntd.

Promethes pulchellus ♀, cognatus ♀ & ♂ (none ntd.) = Atractodes ♀, [illegible], ant. 19

Stenomacrus clavicornis ♀, ant. 17

Mesoleius sp. 5♂♂ + 2♀♀: none ntd.

Bassus sp. ♂ ant. 31. B. sp. ♀. 1 of pulchellus ♂ + ♀; ♀, ant. 25. (See p.260 →)

Mesochorus [illegible] 1♂: ant. 35.

Opius [illegible] 2♀♀: not ntd.

[illegible] [illegible] & [illegible] 5♀ [illegible], ♂ [illegible]: none ntd.

Phaenocarpa [illegible] ♂: not ntd.

Aphidius (Lysiphlebus) fabarum ♀, ant 14

A. ([illegible]) [illegible]? ♀, ant. 16

Dacnusa [illegible] 2♀♀: not ntd.

D. gibbipes ♂   D. affinis ♂ ♀.   D. (?) [illegible] 2♀♀: none ntd.

Chorebus [illegible] 2♀♀: not ntd.

Ephedrus [illegible] 2♀♀ & E. [illegible] 1♀: none ntd.

Aphidius off. 4 only: none ntd.

Proctos. 4: none ntd.

Cynipids & Chalcids 5: none ntd.

Large Mosquito ♀ = Theobaldia annulata [illegible] [illegible]

7th August 1947 – see foot of opposite page.

10th Aug. 1947. A very fine day with gentle W. breeze & very hot sun all day, where I was at Athdown. Rode on bike, leaving home at 10 A.M. & arriving at the "footstick" path, Athdown, Upper Liffey, Co. Wicklow, at 12.20, alt. 800-900 ft. Collected in 3 areas as follows:—

27. 1 = edge of potato & corn patch in field below the road & at top of scarp (with oak, hazel etc.) on rt. (N.) bank of R. Liffey, just E. of the [illegible]. 12.30–1 P.M.

18. 2 = left bank of R. Liffey for 1/4 mile above the footstick, including the marsh below the scarp & above the gorge. 2–4 P.M.

51. 3 = same as 1 but 4–5 P.M.

Athdown, Wl.

Taken at 1 [28 mounted & most these labelled on 24.3.1952.]

Salius exaltatus ♀

Formica fusca winged ♀, 20 ft among the trees.

Myrmica [illegible] ♂, 20 ft, not mounted.

Lissonota bellator ♀ not mtd —No! fide G.J.K.

[illegible] : very rare = [illegible] ♀ ant. 32

(See Kerrich's letter dated 15.3.1951.

'Labelled & sent to Kerrich 12/3/51' A.W.S.

10.8.47, cont. Athdown, Wl., cont.

Taken at 1, cont.

G. Homocidus [illegible] ♂, ant. 10.

[illegible] (13 segs.) 2 mtd. = [illegible] cf. [illegible]? {1♂ ant. 21 with irregular [illegible] 1♀, ant. 21

Mesochorus cf. nigripes ♀, ant. 24.

[illegible] ♀, ant. 30.

[illegible] ♀, ant. 21.

[illegible]

[illegible] ♂, ant. 38. B. [illegible] Hal. ([illegible]) 1♂ ant. 36, 1♀ ant. broken.

Opius caesus 2♀♀ not mtd.

O. [illegible] Hal. 6 (♂♂ & ♀♀), in a [illegible] — 1♂ (ant. 25), 2♀♀ (ant. 24 & 26) mounted!

Alysia [illegible] 6♂♂, 1♀, along potato drill amongst Potato, Galeopsis tetrahit, Spergula, Polygonum Persicaria.

1♂. Ant. of 6♂♂, 30(1), 31(1) & 34(4); of ♀, 29. {In some of these the [illegible] are greatly strongly developed, in others [illegible] & [illegible]; therefore in [illegible] key would run to [illegible] & some to [illegible].' A.W.S.

Pentapleura pumilio 1♂.

Aspilota dentifemur parva 1♀, ant. 17. A. cf. vulgaris 1♂, ant. 22.

A. concinna Hal. 1 fine ♀, ant. 19.

A. dilatata Thoms. 1 typical ♀, ant. 16, another smaller, with narrower wings, ant. 16 also, but very pale at base & much paler legs, but head typical & must belong here.' A.W.S. — [illegible] 1952.'

Dacnusa areolaris prob. 3. not mtd.

D. affinis 4, not mtd.

Chaenusa conjungens 5 (♂♂ & ♀♀) — 3 very big, close to [illegible] the 'genus'. 1♂, 1♀ mtd.; ant. 23 & 19 respectively.

259

10.8.47, cont. Ashdown, W1, cont

Taken at 1, cont.

Proctotrupids 6: none mtd.

Chalcids 7: none mtd.

Beetle. Silpha rugosa? crept

Taken at 2.

Andrena fuscipes ♂♂ abundant at Calluna on "Plateau" S. of footpath a. usual; no ♀ seen.

Nomada rufipes ♂, on same places.

Sawfly. [illegible] glabrata ♀

Cratichneumon ♂: not mtd.

Barichneumon ♂: not mtd.

Alomyia debellator ♀, seen.

Cryptinae 8 ♂♂: 1 mtd. = Phygadeuon? ♀ ♂, ant 22.

Hemiteles? ♀? ♂, ant 21; tergite 1 with beautifully thorn like processes!

Pimpla [illegible]? ♂

Polysphincta 1 small ♀

Glypta [illegible] 1 ♀.

G. nigrina 2 ♀♀

} none mtd.

260

10.8.47, cont. Ashdown, W1., cont

Taken at 2, cont.

Lissonota bellator 1 dark ♂: not mtd.

Perithous mediator ♂: not mtd.

cf. Lathrolestes caudatus Thom.?

Gen. et sp.?, ant. 27; dull, ♀ with very curved terebra

C[illegible] " ♂, ant 30; black hind femora.

Mesoleptus ? 1 = Mesoleius fallax? ♂, ant 29.

Mesochorus dorsalis 2 ♂♂, ant 35 & 37. Do. sp. 2 ♀♀, black ones, not mtd.

Campoplegid 1 ♂: not mtd.

Bracon 3 ♂♂, 1 ♀ = B. fuscicoxis?; ant. ♂♂ 30, 32 & 33, of ♀ 24; sts. of ♂♂ with tergite 3 more rugulose; of ♀ almost smooth, [illegible] [illegible].

Microgaster [illegible]? ♂: not mtd.

Opius caesus 8 (♂ & ♀) not mtd.

D. [illegible] 1 not mtd.

D. [illegible]? 1 ♀, shorter [illegible] than those from 1. ant. 26.

Pentapleura pumilio 2 ♀♀: not mtd.

Aspilota ruficornis ♀, ant 21; a nice specimen but rather small.

Dacnusa areolaris group 4.

D. cf. temula, Nixon. 1♂ (ant 31), 1♀ (ant 28) formerly erythrous Nixon! in part!!

10.8.47, cont. Ashdown, Wt., cont.

Taken at 2, cont.

Dr[illegible] ([illegible]) [illegible] ♂

[illegible] [illegible] ♀ ♀, ant. 21. [illegible] not [illegible], a

[illegible] taken at 1 ? } This [illegible], no doubt.
no I don't think so! H.W.S. 25.3.1951!

Aphidiini ?/. 7.

Proctos 4

Chalcids 2.

Taken at 3. [51 mounted from 3 & these labelled on 28.3.1951.]

Cryptinae 6 ♂♂. none ntd.

[illegible] [illegible] 1 small ♀. not ntd.

[illegible] spp. 2 ♂♂, ant. both 26 =

[illegible] 4 ♀♀, [illegible] (= [illegible]) ? not ntd.

[illegible] [illegible] 1 ♂. not ntd.

[illegible] [illegible] ♀, ant. 25.

[illegible] [illegible] ♀ + [illegible] [illegible] ♂. neither ntd.

Cf. ? triangulator? ♂.

10.8.47, cont. Ashdown, Wt., cont.

Taken at 3, cont.

[illegible] [illegible] 2 ♀♀, ant. 33 + 36, the former [illegible]

M. [illegible] ♀ [illegible], ant 31.

O[illegible] [illegible] 4 (♂ & ♀); not ntd.

O. [illegible] ♀ (?), ant 21.

O. brevis [illegible] 2 ♂♂, ant. both 23, [illegible] rather [illegible] (? immature).

O. [illegible]tella ♀, large sp.; ant. 2?.

B[illegible] [illegible] 1 ♂ ant. 35; 3 ♀♀, ant. 35, 36 & 38.

B. [illegible] Hal. (= [illegible]) 5 ♂♂, ant. 37, 38, 39, 39 & 40.

[illegible] [illegible] 10 ♂♀, [illegible] [illegible] for the
5 ♀ ant. 30(1), 31(4), 32(1), 33(5), 35(1).
[illegible] [illegible] — ♂♂ especially [illegible]!

[illegible] maculipes Hal. (♂) ♀, ant. 18; legs rather pale, ant. rather slender!

C. dilatata Thoms. ♂, ant. 20 — cf 2 ♀♀ taken at 1, p. 258!

4. ([illegible]) cf [illegible]? 3 ♀♀ ant. [illegible] & 16. the heads seem different shape!

D[illegible] [illegible] [illegible], small ♀, ant. 21.

D. [illegible] ? 2 ♂♂, 1 ♀, ant. 23, 23 & 24 (♂♂); 23 (♀).

D. [illegible] 2 ♀♀. not ntd. D. cf elegantula? [illegible] ant. 29-[illegible]

D. [illegible] 1 small ♀ not ntd.

D. [illegible] group, [illegible] [illegible] [illegible],
[illegible] & larger; none ntd.

D. (?) affinis 3 ♀♀. not ntd.

[illegible] [illegible] 6 (♂♂ & ♀♀) none ntd.

263

10. 8. 47, cont. Altidore, WW, cont.

[illegible] [illegible] ♂ ad. 42 [my [illegible]]

Bracon [illegible] ♀ not mtd

[illegible] brevicornis Hal. ♀, mt. 10.

Aphidius spp. 7 including :— A. [illegible] Hal. ♀, mt. 13

A. dissolutus (Nees) Hal. ♀, mt. 16. A. ervi Hal. ♀ mt. 17.

A. [illegible] Hal. ♀, mt. 15.

A. [illegible] Hal. ? ♀, mt. 14, [illegible]

Proctotrupids 12. 2 mtd

Chalcids 4. 2 mtd

Cynipids 2. not mtd

---

10. 8. 47 forenoon.
On way to Altidore & then walking up road to Slade of Saggart, DU, picked up a [illegible], [illegible] Harpalus distinguendus crawling on road & then [illegible] but ? a ♂ or ♀.

264

13th August 1947. The fourth [illegible] morning of a very hot day in succession. Bed [illegible]. Left home at [illegible] P.M. but did not go out till after tea, then about 7 P.M. rode [illegible] to Furry Glen, Phoenix Park, & collected by sweeping in three areas, as follows:—

1 = [illegible], filled bed of glen by stream for 100 yards below boundary wall. Here sweeping almost impossible owing to thousands of the small Sciara [illegible] everything as the dew began to fall.

2 = Spring head & swamp around a [illegible], then seepage from spring runs down into glen at 1.

3 = Under trees, for 100 yards W. of 2, dry ground between the Knockmaroon Gate (from Furry Glen pond) & boundary wall.

Left park at 9 P.M. Specimens not mtd. [illegible]

Furry Glen, Phoenix Park, DU

Insects taken at 1. [12 mtd from 1 & then labelled on 28. 3. 1951]

[illegible] [illegible] not mtd

[illegible] ♀, mt. 25.

[illegible] ♂ & ♀ not mtd

Apanteles infirmus ♀.

Macrocentrus abdominalis ♂, mt. 45.

Opius [illegible] 9 (♂ & ♀); not mtd. Opius cont. p. 265 →

264

13.5.47, cont. Rivière Park, DU, cont.

Taken at 1, cont.

Opius [illegible] 1♀, ant. 22

O. [illegible] 5: 1♀ only std., ant. 24. Type locality!

O. sp.? 1♂ 1♀, ant. 28(♂) + 29(♀), [illegible] proportions,
smooth [illegible], [illegible] together 1+2, small [illegible], head form [illegible]!

[illegible] [illegible] 2.

P. [illegible] 2 1♂ 1♀.

Phaenocarpa pumila ♂

Dacnusa [illegible] ♂ 3♀♀.

D. [illegible] ♀, ant. 32; no doubt [illegible] off [illegible]!

D. longiventris ♂, ant. 32. D. [illegible] small sp., ♂ ant. 25, [illegible], forms a minute dwarf of melanocera, but requires looking into!

D. (G.) [illegible] ♀: not std.

D. (G.) [illegible] ♂, ant 28. D. (G.) ♂, dark legs, ant. 25, near affinis!

Braconids 1 } not std.
Chalcids 1 }

Taken at 2. [Six std. & three labelled 30.5.1951]

Opius [illegible] 3. }
O. [illegible] 2♀♀ }
O. [illegible] 1♂ } none std.
Phaenocarpa pumila ♂ }
[illegible] [illegible] 1♂ 2♀♀ & [illegible] 1♂ 1♀ }

265

12.8.47, cont. Rivière Park, DU, cont.

Dacnusa [illegible] 1. }
D. [illegible] 2 (1♂ 1♀). } none std.
D. [illegible] 1♀ [illegible] }

D. [illegible] ♂, ant. 31

D. (G.) affinis ♂ not std.

D. (G.) [illegible] 2♂♂: not std.

Chorebidea [illegible]? 2♂♂, ant. 24 + 26.

Chaenon [illegible] 1♂, [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] No. 2. No. 3 [illegible] [illegible] [illegible]
two not std., ant. both 24.

Aphidius aff. ? : none std.

Proctos. 5. 1 std.

Chalcids 10 } none std.
Cynipids 2. }

Taken at 3. [Only 2 std. & these labelled 30.8.1951.]

Cynipids 3♂♂. not std.

Meteorus [illegible] ♀, ant. 32.

O. [illegible] 2 (1♂ 1♀) } none std.
O. [illegible] 1♂ 1♀ }

267

13-8-47, cont. [illegible] Park, Dub., contd.
Taken at [illegible]
[illegible] vegetable & [illegible] of [illegible].
[illegible] 1♂.
Alloea contracta ♂
Aspilota spp. 10 (mostly ♂♂), including probably [illegible], [illegible], [illegible] & 1st Spilota sp.

[illegible] longicaudata 11 (♂ & ♀).
D. [illegible] ♂ & [illegible] ? ♂ } new rec.
D. [illegible] ♂♂♂ D. [illegible] ♀, mt. 35.
Chorebus [illegible] ♀
[illegible] spp. 4

Proct. 2 } new recs.

Chalcids 7.

16th Aug 1947. 14 Claremont Rd, Harold's Cross, Dublin.
Macrocentrus abdominalis ♀, mt. 46, taken in house!
[illegible] large specimen with mostly red thorax.

268

20th Aug. 1947. The sixth out of many, a very hot day in succession, but [illegible] cooler, strong E. breeze till after 6.30 PM, then a warm dampish. Not quite so hot as previous week, which was too hot to go out hunting much!

In afternoon cycled to Gollierstown, on Grand Canal, Co. Dublin, arriving at 4 PM, & leaving about 7.30 PM.

Collected by sweeping in three areas, as follows:—
1. Around 1st pond N. of [illegible], N. of canal, about 300 yds W. of Gollierstown Bridge.
2. [illegible], [illegible] at swamp E. end of 1st pond, S. of canal & west of bridge; i.e. the pond not beside canal.
3. E., N. & W. sides [illegible] of 3rd pond S. of canal & only separated from canal by tow path — not very [illegible],
3a. W. & N. edges of 3rd pond S. of canal; i.e. the pond W. of [illegible] [illegible] not at [illegible] pond!

Gollierstown, Co. Dub.

Insects taken at 1. [34 nos. from 12 [illegible] labelled 3. [illegible] 1950.]
[illegible] 2 [illegible] Hemiteles [illegible]

Bracon [illegible] ♀ [illegible]
[illegible] [illegible] [illegible]

[illegible] [illegible] by [illegible] in [illegible] canal 1/4 mile E. of Ballymakaily Bridge [illegible]

20.8.47, cont. Gollierstown, Co. DU., cont.

Taken at 1, cont.

[illegible] incidens very large ♂, ant 41-seg, [illegible]

Apanteles tetricus ♂

Microgaster tibialis? ♂

Ademon decrescens 1 black ♂, ant. 24.

Opius [illegible] 2 ♀♀ not std; not std.

Phaenocarpa [illegible] ♀ – ant 26; also [illegible] ♂ – ant 34, very large

Aspilota sp. [illegible] ♂ – not std.

[illegible] [illegible] not std, [illegible]

Pentapleura pumilio 5(♂+♀)

Dacnusa laevipectus? 1♀ } none std

~~D. [illegible]~~ areolaris? ♂ }

D. [illegible] ♂, ant. 24.

D. (G.) [illegible] about 2 doz. ♂♂+♀♀ none std.

D. (G.) [illegible] 2♂♂, ant. 27.

Chaenusa conjungens: 3 (♂+♀) none std.

[illegible] [illegible] Hal.: 16 ♂♂ (24-(6), 25-(6), 26-(3), & 27-seg (1))

& 3 ♀♀, ant 20, 21 & 21-segmented.

20.8.47, cont. Gollierstown, Co. DU., cont.

Pr. Taken at 1, cont.

[illegible] [illegible] 1 ♂+♀, ant 19 & 18 respectively

[illegible] [illegible] ♂: not std.

[illegible] sp. very small ♂ & ♀ = G. [illegible]?

ant. ♀, 12 or 13, not 2-seg, pedicel?; ♂ ant. 15-seg

Proct.: 1 - none std

Chalcid. 3 : not std.

Cynipid, [illegible], 1 : not std.

Taken at 2 [27 mounted from 2 & these labelled in July 1951]

Ichneumonid. 7, including [illegible] [illegible] (?) & [illegible] [illegible]

of these 27 [illegible] = [illegible] ♀ ♀, ant 18

"only the last mounted"

Glypta [illegible] ♀: not std

[illegible] [illegible] 2♂♂: not std

[illegible] [illegible] ? ♀♀ not std.

Meteorus [illegible] ♀, ant. 26.

Ademon decrescens 1♂, 3♀♀; ♂, 14 – det. H.W. Daltry, April 1950. [illegible] & black, ant. 24, 19, 20 & 20.

Opius [illegible] ♂

O. [illegible] 1♂, 2♀♀: 1♀ std, ant 23, [illegible] [illegible]!

O. [illegible] 1♀, ant. 22: very nice specimen!

O. [illegible]? ♀, ant. 24.

271

20.8.47, cont. Gollierstown, D.U., cont.

Taken at 2, cont.

Rhamphomyia [illegible] ([illegible]) 7 ♂♂, ent. 27(?), 30(?), 31(?). —2 ♂♂ sent to H.W. Daltry April 1951.

Pentaplenia pumilio & [illegible], ♀ [illegible].

[illegible] ♂ = [illegible]

Yes! only a ♂ Pentaplenia pumilio, ent. 25, very like [illegible]!?

Dolichopus [illegible] ♂, ent. 23. sent to H.W. Daltry, April 1951.

D. [illegible] group 2 ♂♂ none mtd.

D. (G.) [illegible] 15 (♂ & ♀) D.(G.) [illegible] ♀ ent. 24, [illegible] checked; mounted, [illegible]

D. (G.) affinis 4 (♂ & ♀). none mtd.

[illegible] 1 ♂ not mtd.

Chrysotus [illegible] 4 ♂♂, ent. 25, 26, 26, 26, 2 ♀♀, ent. 17 & 21. — not sent to H.W. Daltry April 1951

[illegible] sp. ♀ not mtd.

[illegible] sp. 5: 1 ♂, 1 ♀ only mtd = [illegible] of [illegible] ? ♂ ent. 19, ♀ ent. 16.

[illegible] sp.

[illegible] sp. } none mtd.

[illegible]

272

20.8.47, cont. Gollierstown, D.U., cont.

Taken at 3 [[illegible] mounted from 1 & three mounted on 5.4.1951.]

[illegible] 3 none mtd. See/cf. 2 = [illegible] ♀ / [illegible] of [illegible] ? ♂

[illegible], the sp. =

[illegible] 12, including [illegible] none mtd.

[illegible] ♀. not mtd.

Hercostomus [illegible] ♂, ent. 27; [illegible]

[illegible] group ♂, ent. 29.

[illegible] & [illegible] ♀, ent. 25.

[illegible] ♂ [illegible] on 13.7.47, [illegible] p. 237.

Syntormon pallipes ♂, ent. 22.

[illegible] ♂, ent. 24.

[illegible] 1 ♂, 2 ♀♀, [illegible] ent. 25, 30 & 31.

[illegible] sp. not mtd.

[illegible] ♀. ent. 22.

Pentaplenia [illegible] & P. pumilio (? [illegible]) none mtd

Rhamphomyia [illegible] 2 ♂♂ not mtd.

[illegible] ([illegible]) [illegible] ♀ the only [illegible] taken. — not sent to [illegible]

Dolichopus longicornis 1 ♂. N.B. the rarity of the [illegible] group on this day is remarkable!

D. [illegible] 2 ♂♂, 2 ♀♀, ent. 33 & 34(♂♂), 34 & 35(♀♀) — 1 ♀ sent to H.W.D. April 1951.

D. [illegible] ♀, ent. 26.

20.8.47, cont. [illegible] D.U., cont

[illegible] 3

[illegible] ([illegible]) obliquus 25♀

Δ (G.) affinis 2 ♂♂

Δ (G.) [illegible] ♂; [illegible] 25

[illegible] [illegible] 5 (♂♂ + ♀): 355 [illegible], [illegible] ([illegible] 20 + 20), large [illegible] 25.

[illegible] (by plate pitfall) 3. [illegible]

Braconidae ♂. ♀.
Aphidiinae spp. 6.

Proctotrupidae 2
Chalcids ?
Cynipidae 3

none [illegible].

23rd August 1947 (Saturday!). The first day of cloud, with local showers around Athy — when(?) for nearly a fortnight, but rising glass all day & previous night!

Went by train (8.15 AM) to Athy with [illegible] Sellar (Belfast) & G. F. Mitchell (T.C.D.), where met by Mr Mundy in car & driven to craggy limestone hill at Luggacurren about 7 miles SW

23.8.47, cont. Luggacurren & Clopook, Q.C., cont.

up hill & in Queen's Co (– here!), there are several small caves in one of which Mr Mundy had found a bone of the Irish Giant Deer in 1946.

Whilst Mundy, Mitchell & Sellar [illegible] caves now largely occupied by badgers & rabbits [illegible] very [illegible] by [illegible] grass, ragwort, &c., on the hill top, then [illegible] under

Left here about 1.30 & went [illegible] to the rath-crowned ring at Clopook, 2 miles NW of Luggacurren to see cave on E. side of the escarpment & near top of hill — at top of talus & at foot of small cliff or rock face. Here in wide entrance to cave dug a trial pit, but whole area much disturbed by badgers & no section of undisturbed deposit could be found. Masses of bones of frog found here & there & other recent bones (sheep, ox, pig, rabbit, fox) together with some very old fragments [illegible] possibly some Giant Deer & Reindeer & two phalanges of bear — one first & one second. After lunch on bank of rath about 2 P.M. dug in cave till 6 P.M. & then went down to field N. of graveyard & Clopook Ho. & swept margin of partial cattle pond, which

23.8.47, cont. Luggacurran, Clopook, Q.C.
consisted chiefly of trampled & trodden sand, with some grass &c. Here swept millions of minute flies (Diptera) & many small Hymenoptera.
During the day saw few bumble bees, but noted Bombus lucorum fresh ♀ & ☿☿, B. lapidarius ☿♂ B. agrorum ☿☿ & 1♂ Psithyrus ♀?. Salius exaltatus & Selandria serva (1♀ on dry top of Luggacurran & the other by cattle pond at Clopook. Mitchell saw a Clouded Yellow Butterfly at Clopook & 5 or 6 Red Admirals at Luggacurran & [illegible] at Clopook

" Insects swept on summit of Luggacurran, Q.C.
= (1) 23.8.47. [14 mounted & then labelled 8.4.1951.]
Sawflies: Selandria serva ♀ an extraordinary dry place for such an insect!
Salius exaltatus ♀
Cryptinae 15 (only 1♀): one ♂ Phygadeuon? only mounted: ant 21-seg.
=

Lissonota [illegible] ♀, ant. 34.
[no other Ichneumonids seen!]

23.8.47, cont. Luggacurran, Q.C., cont.
[illegible] [illegible] ♀, ant. 26.
Perilitus of [illegible] ♀, ant. 21, [illegible] base to [illegible]; [illegible]
B[illegible] femoralis ♂, ant. 48.
Ophion [illegible] [illegible] (♂ & ♀) none retd.
O. [illegible] 1♂, not retd.
Pentaplema pumilio 8 (♂♀) not retd.
P. angustulus 2♂♂ not retd.
[illegible] [illegible] 1 very small ♀: not retd.
[illegible] concinna small ♀, ant. 19. G. [illegible] small ♂, ant. 21.
G. ([illegible]) [illegible]? ♂, ant. 19.

[illegible] [illegible] many about 15 only: all very small,
none retd.!

D. elegantulus, cyclops, dimidiatus, [illegible], all present, none retd → 1 small [illegible] retd. with very dark legs; ant. 27.

D. affinis 6 (♂♀): 1 small ♂ retd., ant. 21/23, petiole rather narrow?

[illegible] n. sp. Sligo? 2 small ♂♂ only, 1 retd., ant. 36.
[illegible] [illegible] 1♂: not retd.
Aphidius spp. 1♂, 1♀ only: not retd.

23. 8. 47, cont. Luggacurren, QC, cont.

Proctos.

Chalcids } Small of all [illegible] only one Procto. mounted = Phaenoserphus viator Hal.? ♀ not [illegible]!
Cynipids }

---

23. 8. 47, afternoon = (2)

Clopook, Q.C. [20 mounted & these labelled on 9.4.1951.]

Taken by sweeping margin of cattle pond!

[illegible] [illegible] ♀. not mtd

Crypt[illegible] the smaller Hemiteles aff. elegans group? none mtd.

[No other Ichneumonidae!]

10.

[illegible] [illegible] 2 (♂ & ♀) ant. 26 & 20 & no [illegible] seen!

Opius [illegible] [illegible] (♂ & ♀); ♂ mounted, ant. 24.

Pentapleura pumilio about 12 (♂ & ♀): none mtd

P. angustula ♂: not mtd.

Phaenocarpa ruficeps ♂, ant. 28.

Aspilota [illegible] of [illegible] ♂, ant 20; elongate 2nd cubital areolet.

[illegible] of [illegible] group; a minute ♀, with 16-seg ant.; short, wide 2nd cubital areolet & elongate radial areolet.

23. 8. 47. cont. Clopook, QC, cont.

Dacnusa areolaris group only ♀ – none mtd. in [illegible]; D. [illegible] – not mtd

D. [illegible] – 1♂, 1♀, ant. both 27. [illegible] – a large ♂ & ♀, ant. 33 & 23, & [illegible] – not mtd.

D. [illegible] & affinis common; only ♀ of [illegible] mtd., ant. 22 & 23, [illegible]

[illegible] [illegible] 1♂, ant 27. Chorebus [illegible] 12 ♂♂, 3 ♀♀ none mtd.

Ephedrus [illegible] 2 ♀♀: not mtd.

Trioxys sp. [illegible] 3 ♀♀, ♂♂ common: 2 ♂♂ (ant. 13), 3 ♀♀ (ant. 12) mtd.

Aphidius aff. [illegible]: not mtd.

Proctos. }
Chalcids } small spp. common but only a few taken. None mtd.
Cynipids }

? beetles =

24th August 1947. A blazing hot afternoon with some cooling breeze, after a dull [illegible] forenoon & no wind. Left home on bikes about 11.30 (Daisy, self & R.J. Sellar) & rode to Rye Water, Leixlip, Co. Kd., & had lunch on bank of aqueduct (N. side) above right bank of Rye Water. After lunch swept in [illegible] on slope above right bank of Rye Water & N of canal for an hour, then rode on to plantation (Collinstown Ho. [illegible]) ½ mile W. of Louisa Bridge & beside Royal Canal & swept in plantation for another hour. Left for home about 5 P.M. & home at 6.30.

24. 8. 47, cont. Rye Water & Royal Canal, K.D.

13. 1 = Marshy flat on right bank of Rye Water, 50 yards, N. of canal aqueduct.

14. 2 = Sunk area in plateau between Louisa Bridge & station 1.

18. 3 = Mr. Mitchell's plantation along canal at Collinstown Ho. = "R. Canal"

[Some dying Aphides collected in [illegible] nursery at [illegible], Co. DU., produced ♀♀ (6) of Aphidius ervi on that evening & following day!]

Insects taken at 1 [13 mounted & those labelled 10. 4. 1951]

Cryptinae 2 ♀. Hemiteles sp. ♂: not idd.

[illegible] graminicola ♀, ent. 26.

Promethes sulcator 3 ♀♀: not idd.

P. pulchellus ♂: not idd.

Homocidus pallipes ♂, ent. 23

Stenomacrus sp. ♀: not idd.

Mesochorus sp. ♀: not idd.

Nepiera concinna? 2 ♂♂, 1 ♀: 1 idd, ent. 26.

Opius irregularis 4 (♂ & ♀)

O. [illegible] ? (1 small ♂, 1 larger ♀, ent. both 22).

O. exiguus? 3, ent. 27.

O. sp. [illegible] ?? ♀, ent. 23.

24. 8. 47, cont. Rye Water, K.D., cont.

Taken at 1, cont.

Pentapleura pumilio 2 ♀♀: not idd.

Dacnusa areolaris group, includ. [illegible] (♂♀) & maculipes: none idd.

D. aphenta 8 (♂ & ♀): none idd.

D. (G.) senilis ♂ (1), ent. 29.

D. (G.) aff. ? 1 ♀: not idd.

D. (G.) [illegible] 2 ♀♀: 1 idd. [illegible] 22 [illegible]

Chaenusa conjungens 13 (2 ♂♀)

Coelinius diversipes ? 2 ♂♂, ent. 40 & 41; legs mainly red.

Praon [illegible] 2 (1 ♂, 1 ♀): not idd.

Aphidius sp. 9: 1 ♂ idd = A. [illegible] Hal. ([illegible] Hal.) ent. 19.

Procto. 1 }
Chalcids 3 } none idd
Cynipid 2 }

Hemiptera = [illegible] [illegible] Fallen, ♀, fide A.M. Massee 1964 – New to Ireland.

Seen by canal between stations 2 & 3.

Aeshna juncea (1), A. grandis (2), Orthetrum [illegible], 3 mainly taken at 2.

Sympetrum striolatum frequent.

Painted Lady Butterfly 1. Red Admiral 1. Peacock 1.
Clouded Yellow ♂♂ 2. Common Blue ♂♂, ♀. Wall Butterfly.
Speckled Wood. Silver-washed Fritillary 1 ♀. Small Copper.

24.8.47, cont. Rye Water, KD.

Taken at 3.

Only about a dozen insects taken here & except for the following (which I mounted!) none of importance.

Colpognathus celerator ♂, ant. 31.

Homocidus [illegible] ♂, ant. 22.

Meteorus abdominator ♂, ant. 26; small!

[illegible] elegantula ♀, ant. 27

24.8.47, cont. – Royal Canal, Co. KD = 3.

[18 mounted from 3 & then labelled on 12.4.51.]

[illegible] [illegible] [illegible] [illegible] ([illegible] species).

Cryptus ♀: none mtd.

[illegible] [illegible] ♂, ant. 20.

Glypta [illegible] 2 ♀♀: not mtd.

[illegible] ♂, ant. 27 =

Bassus [illegible] 2 ♂♂ not mtd.

[illegible] [illegible] of [illegible], ♂♂ & ♀♀: none mtd

Agrypon [illegible] ♂, ant. broken!

Dioctes exareolatus ♀: not mtd

24.8.47, cont. R. Canal, KD., cont.

Taken at 3, cont:

Campoplegid: large black ♀, ant. 26 = [illegible] xanthostoma Grav. [illegible] 13.4.1951.

Campoplex of the [illegible] ♀, but [illegible] strongly punctured & [illegible] legs.

[illegible] [illegible] ♀: the first [illegible] seen in 1947: not mtd.

Banchus [illegible] ♀: not mtd.

Ophion [illegible] ♀, ant 24. O. [illegible]? ♀, ant. 24.

[illegible] [illegible] pr (♂ & ♀): not mtd.

P. [illegible] ♀: not mtd.

[illegible] [illegible] & fully [illegible] ♀: not mtd.

[illegible] [illegible] ♂: not mtd.

Amblyteles tumidus 1 very nice ♂, ant. 20. A. of [illegible] S. & G. ant. bitten off.

A. [illegible] ♀, [illegible], [illegible], ant 28 very small.

A. [illegible] ♀, small, [illegible], [illegible], long 20 segments.

[illegible] [illegible] only 4: not mtd.

D. [illegible] [illegible] not mtd.

D. elegantula ♀: not mtd.

D. (Ognomus) adductor ♂, ant. 30: fine specimen.

[illegible] [illegible]? 1 fine ♀, ant. 20.

[illegible] [illegible] 1 ♀, small, ant 11

P. [illegible] ? 2 ♂♂

[illegible] [illegible] (= [illegible] Hal.)

[illegible] [illegible] ♂: not mtd.

283.

24 8 47, cont. Royal Canal, KD, cont.

Taken at 3, cont.

Aphidius spp. 6.

Proctos 12

Chalcids 16.

Cynipid. 1.

Taken in back garden 14 Clareville Rd, Harold's Cross, Dublin, 28.8.47.

Sawfly: Ametastegia pallipes ? 2

[illegible] 1 ♂, ent. 35.

[illegible] 1 ♀, ent. 31.

31st August 1947. Weather still very hot & dry, all blue sky till 7 P.M., when some light clouds came from north: some local rain on 22nd but none fell in our area of Dublin. E. breeze during day.

Left home at 10 A.M. & rode to Gollierstown bridge on Grand Canal, Co. DU; where swept four areas as follows: —

10. 1 = N. end of 1st grassy pond S. of canal & W. of bridge i.e. pond separated from canal by tall bank.

7. 2 = edge of 2nd pond S. of canal & W. of bridge

5. 3 = Glyceria, Sagittaria sagittifolium, etc. by [illegible] dry, 1st pond N. of wall & canal & W. of bridge.

284.

31 8 47, cont. Gollierstown, DU, cont.

4 4 = edge of 3rd & 5th ponds N. of canal & wall & W. of bridge.

Gollierstown, DU,

Taken at 1.

Cryptinae 12 mounts.

[illegible] [illegible] 1 ♀, not std.

[illegible] [illegible] 1 ♀ & [illegible] 1 ♂ not std.

[illegible] 1 ♀, ent 18.

[illegible] [illegible] 20 ♂♂; [illegible] dull & dry margin of pond; ent 20, 20, 21

Adimonia [illegible] 10 small black ♀♀

Opius caesus 16 nearly all ♀♀

O. [illegible] 1 ♀; not std. O. [illegible] 1 dark ♂, ent. 26.

O. [illegible], 1 ♂, ent 26; 1 ♀, ent 21.

O. [illegible] 2 ♂♂, ent 25 & 27; 1 ♀, ent. 24.

Pentapleura pumilio 5; not std.

Phaenocarpa [illegible] Hal. 1 ♀ & 3 ♂♂ std (= [illegible]!) (These not seen when tabling 15.4.1951.) ? already tabled to given away? A.W.S.

Ph. picinervis 2 ♂♂, ent 28.

A. lucida 1 ♂, ent. 29.

31.8.47, cont. Gollierstown, Co DU, cont.

Taken at 1, cont.

Aspilota (Synaldis) [illegible] 2 ♂♂, 2 ♀♀, not mtd.

Dacnusa [illegible] ♀: 1 large ♂ only mtd. mt. 33.

D. [illegible] 4 ♂♂, mt. 27, 28, 29 & 39.

D. [illegible] 1 ♂. not mtd.

D. [illegible] [illegible] 16 only (♂ & ♀) of which [illegible] mtd.
= D. confinis ♀, mt. 22.

D. (Gyrocampa) [illegible] very abundant, mostly ♀♀;
1 ♂ (mt. 24), 4 ♀♀, mt all 24, mounted; the ♂ with more cubical head, much widened behind the eyes, & very narrow wings, ♂

D. (G.) affinis only 2 · not mtd.

[illegible] Hal. 6 (3 ♂♂, mt. 25, 26 & 36; 3 ♀♀, mt. 20, 21 & 22.

Chaenusa conjungens abundant (♂ & ♀). none mtd. Chaenusa opaca n. 1 ♀, mt. 34

Ephedrus [illegible] 1 ♂: not mtd.

Praon [illegible] 1: not mtd.

P. [illegible] 2 ♂♂: not mtd.

Trioxys auctus 2 ♀♀. T. cf. [illegible] ? ♂ mt. 13.

Aphidius spp about 12: 3 mtd. = A. [illegible] ♂ & ♀, mt. 14.

A. cf. [illegible] 1 minute ♂, dark legs, mt. 15.

A. cf. [illegible] ?? ♂ mt 19

31.8.47, cont. Gollierstown, Co DU, cont.

Taken at 1, cont.

[illegible] about 12.

Chalcids 5

Cynipids 1

Taken at 2 [17 mounted from 2 & these labelled on 17.4.1951.]

Cryptinids 13: none mtd.

[illegible] [illegible] ? ♀: not mtd.

[illegible] [illegible] 1 [illegible] ♂: not mtd.

Orthocentrus [illegible] 3 not mtd

O. [illegible] 3 not mtd. O. [illegible] Hal. ♀, mt. 22 [given by H.W. Daltry]

O. [illegible] ♂ mt. 25 Given by H.W. Daltry, April 1951.

O. [illegible] Hal. 1 ♂, 1 ♀, mt. 24 & 25. given by H.W. Daltry, " ".

[illegible] [illegible] 7: not mtd.

[illegible] [illegible] 2 ♂♂ ([illegible]), mt. both 30.

[illegible] [illegible] 2 ♂♂: not mtd.

287.

31. 8. 47, cont. Gollierstown, Dbl., cont.

Taken at 2, cont.

[No Lepidopta!].

Dacnusa of areolaris grp.

D. apicata 2♂♂ (mt. both 25); 3♀♀ (mt. 23, 24 & 25).

D. temula, ♂ (mt. 23), ♀ (mt. 25).

D. sp. [illegible] ♂, mt. 27; ♀, mt. 26.

D. (G.) uliginosa 2 : not mounted

D. (G.) affinis 1 : not mtd.

Coelinius n. sp. large ♀, mt. 34

Chaenusa conjungens 18 (♂ & ♀) : not mtd

Ephedrus validus 3 : not mtd

Praon exoletum abundant, mostly ♂♂. not mtd

Monoctonus cf. nervosus ? 1 small ♂. not mtd.

Aphidius spp. 11 : none mtd

Procts 3; 1 mounted =

Chalcids 3 } none mtd.
Cynipids 4 }

Clouded Yellow Butterflies 3 seen (2 above & 1 below bridge, by tow path along canal.

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31. 8. 47, cont. Gollierstown, Co. Dbl., cont.

Taken at 3. [Only mounted from 3 & those labelled on 18.4.1951.]

Hemiteles sp. 7♂♂ : none mtd.

3 Aspilota ruficornis ? ♂ : not mtd.

Adelura [illegible] 6 (♂ & ♀) small & v. black : none mtd

Opius caesus ♀ : not mtd.

O. [illegible] ? ♂, not mtd

Phaenocarpa ruficeps ♂ ([illegible]), mt. 31

Pentapleura pumilio 4 : not mtd.

P. fuliginosa ? 1 small ♂, mt. 26

Dacnusa melanocera 1 large ♀, mt. 28

D. areolaris group 3 : not mtd.

D. (G.) uliginosa abundant : none mtd

D. (G.) affinis ? 7 :– the only ♀ mounted is D. (G.) [illegible], mt. 26.

Coelinidea gracilis ♀, mt. 19.

Chaenusa conjungens 10 ♂ & ♀ : not mtd

Ephedrus validus 2 ; not mtd

Aphidius spp. 3 not mtd

Procts 1 : not mtd

Chalcid 1. not mtd

31.8.47, cont. Gollierstown, Co. DU., cont.

Taken at 4. [18 mounted from 4 & these labelled 18-4-1951.]

Atractodes tenebricosus ? 2 : not std.

Ademon decrescens 3 : not std.

Opius caesus 5 : not std.

O. irregularis 1 : not std.

O. exilis Hal. 1♀, ant. 25.

Pentapleura pumilio 3 : not std.

Phaenocarpa [illegible] ♂ (= [illegible] ?), ant. 31

[illegible] (Synaldis) [illegible] ? 1 [illegible] ♂ : not std.

Dacnusa [illegible] 4 : not std.

D. discolor? ♀, damaged [illegible] ! Ant. 22.

D. cyclops 2♀♀, ant. 22-24.

D. cf. [illegible] 2♂♂, ant. 26.

D. (G.) [illegible] 7 : not std.

D. (G.) [illegible] 5 ♂♂, ant. 25-27.

D. (G.) affinis 4 : not std.

D. (G.) [illegible] 1♂, ant. 29.

D. (G.) temporalis 1 [illegible] ♀, ant. 23.

Chorebus [illegible] 1♀, ant. 21.

Chaenusa conjungens 3 : not std.

31.8.47, cont. Gollierstown, DU., cont.

Taken at 4, cont.

Ephedrus validus 1♂. not std.

Praon [illegible] several : not std.

P. [illegible] ♂ : not std.

Aphidius [illegible] common : 2♀♀ mounted, with 14-17 seg. ant.

= A. [illegible] Hal. (= [illegible] Hal.) or [illegible] Marshall ?

which seem to me to be most likely the same species. [illegible] 19.4.51.

[illegible] 2♂ : 1 [illegible] mounted =

Chalcid 1 : not std.

1.9.1947. [illegible] 1 small ♀, ant. 42
taken on birch tree in front garden,
14 Clareville Rd, Harold's Cross, Dublin.

3rd Sept. 1947. A fine day, but, unlike those of previous 3 weeks, cloudy & cooler, with gentle N.W. breeze. In afternoon rode to the Brittas Ponds (over 700 ft. alt.), near (E of) Crooksling, Co. DU., & swept in 3 places as follows:—

1 = Margin at N.W. corner of the southern pond, especially under & about some bushes of Salix cinerea. 4 30 - 5.30.

2 = Dry bed of the northern pond, especially at S.E. corner & along the central water course in centre. 5 30 - 6 30.

3 = Much the same ground as station No. 1, but including another 50 yards (i.e. 150 yards entirely) from N.W. corner of pond & S. of the N. dam. 6 30 - 7 0 PM.

3.9.47, cont.   Britton Ponds, Co. Du., cont.

Taken at 1. [25 mounted from 1 & those tabulated on 20.4.1951.]

[illegible] 13 & [illegible] all ♂♂. none retd.

[illegible] 1♂, 2♀♀, & [illegible] 1♂: none retd.

[illegible] not retd ♂ & [illegible] Thoms. ♂, ret. 19.

[illegible] not retd ♂ & H. pallipes ♀ 1♂, ret. 22

[illegible] not retd 2 large ♂♂. [illegible] at first sight [illegible]

[illegible]? ♀, ret. 26.

Opius singularis 3; not retd.

O. exiguus 5: not retd.

O. levis W.? 3♂♂ (ret. 21, 22 & 32); 1♀ (dark type, ret. 20)

O. [illegible] m. 2♂♂, ret. both 23

O. [illegible] Hal. [illegible] ♀, ret. 24

Pentapleura pumilio, about 2 doz & nearly all ♀♀: none retd.

Adelura [illegible] 1♂, ret. 30.

Aspilota cf. tenella & a minute ♂, ret. 20. A. cf. [illegible] m. ♀, ret. 15. with dimple!

A. cf. [illegible], 1 minute ♂, ret. 17, tergite 1 m., slender!

Dacnusa areolaris group, including 1♂ [illegible], ret. 10

D. [illegible] ♂, ret. 31. Very nice specimen!

D. [illegible]? ♂, ret. 27.

3.9.47, cont.   Britton Ponds, Du., cont.

Taken at 1. cont.

Dacnusa (Gyrocampa) [illegible] 7 (♂♂ & ♀♀): none retd.

D. (G.) affinis ♂♂ not retd. & D. (G.) [illegible] 1♂, ret. 27

D. (G.) [illegible] 2♂♂. not retd

D. (G.) semirugosa m. ♂, ret. 27.

Coelinius [illegible] m.? 2♂♂, ret. both 28.

Chaenusa [illegible] ♀ (♂♂ & ♀♀): none retd

[illegible] 2: not retd.

Aphidiinae spp. 17: 4 mounted = A. cf. [illegible] Hal. ♀, ret. 14,

A. [illegible] 2♂♂, 1♀, ret. 16, 15 & 13(?).

Proctos: G.: 1 mounted = Exallonyx [illegible]? ♂

Chalcids 1 - not retd.

Cynipids 4 - not retd

3.9.47. Clouded Yellow Butterfly seen on roadside just above "The Embankment" at 3.30 P.M.

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3.9.47, cont. Britten Ponds, D.U., cont.

Taken at 2. [8 mounted from 2 & these labelled 22.4.1951.]

[illegible] 14 (11♂♂, 2♀♀): 1♀ only mounted & [illegible] ant. 20-23.

[illegible] ♀ not mtd.

[illegible] = a minute ♂ of [illegible] of [illegible] group, ant. 17, dark legs.

Opius [illegible] & [illegible] 2 each: none mtd.

Dacnusa [illegible] 2♀♀, ant. 36, 22 & 27.

D. [illegible] minor ♂, ant. 30.

D. [illegible] 4 ♂♂, ant. 29.

D. (G.) [illegible] 4: 1♀ mounted, ant. 33; [illegible]!

D. (G.) [illegible] 1♂, ant. 31.

Chaenusa conjungens, 12, ♂♀ none mtd.

Ephedrus [illegible] 1♀: not mtd.

Praon [illegible] 2: not mtd.

Aphidius sp. 1E: 1♂ only mtd. cf. A. [illegible] ant. 16.

Proctos. 4 } none mtd.
Chalcids 1. }

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3.9.47 cont. Britten Ponds, D.U., cont.

Taken at 3 [25 from 3 mounted & these labelled on 23.5.51.]

[illegible] : about 22 [illegible]

Pezomachus 1 ♂, ant. 24.

[illegible] 1 ♀, ant. 22.

[illegible] ♀ not mtd.

[illegible] ♀, ant. 26, [illegible] =

=

Blacus ruficornis [illegible] ♀ not mtd.

B. [illegible] ♂, ant. 19.

Opius [illegible] 2: not mtd. O. [illegible] ♀, ant. 23. O. [illegible] ♀, ant. 22

O. [illegible] ♂, ant. 22. O. ovalis sp. n. ♀. Type! A.W.S. 23.4.1951

Cf. ♂ & ♀ from Royal Canal, K.D., on (6) 15.8.1943 & (5) 23.7.1944, respectively! A.W.S. 20/8/1951

Pentapleura pumilio about 20: only ♀♀: none mtd.

P. [illegible] 1♀: not mtd.

Aphaereta tenuicornis ♂, ant. 26; very large example!

Asobara semirufa ♂ ant. 17; [illegible] ± pale! } G. ([illegible]) [illegible] ♂ not mtd.

Dacnusa [illegible] group only ?, including [illegible] 2 ♂♂, [illegible] ♂ : none mtd.

D. (G.) [illegible] 1♂ 1♀, ant. 26 & 25 respectively.

D. (G.) [illegible] 2 ♂♂, ant. 36 & 37.

D. (G.) affinis 8 ♂♂ ? : none mtd.

D. (G.) [illegible] 4 ♂♂ ; also 1♀ & this alone mtd., ant. 31.

Chaenusa conjungens 4 : not mtd.

3.9.47, cont. [illegible], cont.

Taken at [illegible], cont.

[illegible] [illegible] & [illegible] 1 of each not std.

Aphidius spp. 30: none std.

{ Coelinius of [illegible] 8♂♂ (ant. 38(4), 39(2), 40(1) = 1 broken), & 1♀ (ant. 36, very long & slender for a ♀!!); wings distinctly fuscous!

[illegible] 7 (only counted) =

Cynipids 2: not std.

10th Sept. 1947. A fine but very blustery day, coming after a day of gale on 9th & many showers on the 8th. [illegible] [illegible] walk to upper reservoir in Glenmore against a fierce SW wind — almost gale about [illegible] & [illegible] upper lake in Glenmore — but found a perfect shelter at NW corner of upper reservoir, just S of the boat 'dock' & here swept very edge of lake for an hour — 4.30 till 5.30 PM.

Small hymenoptera, mainly Dacnusini & Aphidiids — very common at water high water mark, more [illegible] by [illegible], [illegible], [illegible], but few below this or [illegible] above this level.

10.9.47, cont. Glenmore, Co. DU, cont.

Swept very edge of upper reservoir just S of boat landing near N.W. corner of lake, 4.30 till 5.30 PM.

[NB. The first [illegible] [illegible] collected in Glenmore this year!]

[illegible] [illegible] ♀: not std.

[illegible] [illegible] ♂, ant. 29.

Dacnusa [illegible] 8♂♂: none std.

Opius [illegible] 2♀♀, & O. [illegible] 1♀: none std.

O. [illegible] 1♂, ant. 34.

[illegible] [illegible] 2: not std, [illegible] 1♀: not std.

Aspilota sp. n.? ♀; very short ant. 17, [illegible], not [illegible] {cf. [illegible] Kilkenny [illegible] 7.8.44

C. (Syrrhizus) [illegible] ♀; ant. 16; [illegible] [illegible] [illegible].

Dacnusa [illegible] [illegible] [illegible] [illegible].

D. [illegible] 1♂ & D. [illegible] 1♀: not std.

D. [illegible] ♀, ant. 26, [illegible] [illegible]!

D. (G.) [illegible] 3♂♂ (ant. 29, 31 & 33), 1♀ (ant. 29).

D. (G.) affinis ♂, ant. 34.

♀.

[illegible] [illegible] 23 (only 2♂♂): none std.

Aphidius spp 6: not std.

[illegible] 9 } none std
Chalcids 2 }

11.9.47 [illegible] [illegible] [illegible] [illegible] ... 11th Sept 1947 [illegible] [illegible] [illegible] Glenmore [illegible] ... Hand [illegible] to DU.

17th Sept. 1947. After a [illegible] wet day & heavy rain at night, lovely morning [illegible] the [illegible] ... [illegible]
Cloud [illegible] S.E., wind [illegible]
In afternoon [illegible] to Gollierstown, Co. Du., & collected by three of the ponds [illegible] north of the canal & west of Gollierstown Bridge, as follows: —
1 = Swampy pond (Sphagnum), N of canal & [illegible]
2 = Second pond just W. of this & very filthy
3 = Third pond just W. of this & just W. of [illegible] [illegible] [illegible] clear

Gollierstown ponds, Grand Canal, Co. Du.
Taken at 1. [Only 6 [illegible] & these labelled 20.9.47!]
[illegible] sp. [illegible] [illegible]
[illegible] [illegible] 2 ♀♀.
[illegible] [illegible] ♂

[illegible] [illegible] 4 (♂ & ♀) — none wtd.
[illegible] [illegible] 2 ♀♀
[no [illegible]!]
[illegible] [illegible] 1 ♀
[illegible] [illegible] 2 ♀♀; cut 26 & 27.

17.9.47, cont. Gollierstown, Co. Du., cont.
Taken at 1, cont.
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] = [illegible] ♀, cut 16

[illegible] 3 } [illegible]
[illegible]: }

Taken at 2. [Only the Proctotrupes kept & this labelled on 20.9.47!]
[illegible] [illegible] 1♂. P. [illegible] 1♀.
[illegible] [illegible] 1♀.
[illegible] [illegible] 2♂♂, 1♀ } none kept
[illegible] sp. 2.
[illegible] 1, [illegible] — labelled 20.9.47!
Proctotrupes gladiator Hal. ♀, [illegible] [illegible] [illegible] [illegible].
Taken at rather trampled edge of stinking pond, fouled by cattle & still being fouled, although there seems to be [illegible] [illegible] there. This is the first ♀ I have taken. First 3 ♂♂ were taken in [illegible] at [illegible], Co. [illegible], on 13.9.1942!

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1 17.9.47 cont. — Gollierstown, Co. Dub., cont.
taken at 3. [Only 5 [illegible] labelled [illegible] 19.9.47]
Amaurobius [illegible] ♀.
[illegible] ♀ [illegible]
Ophion [illegible] 3.
O. [illegible] 1 ♂ — not [illegible]
[illegible] ♀, small.
[illegible] ♀.
[illegible] ♀♀.
[illegible] 1 ♀, [illegible] 20.
[illegible] ♂, [illegible] 27, [illegible]
[illegible] ♀, [illegible] 22: [illegible] dark legs, small.
Aphidius aff. 15: [illegible]

Proctotr. 5, 2 [illegible]

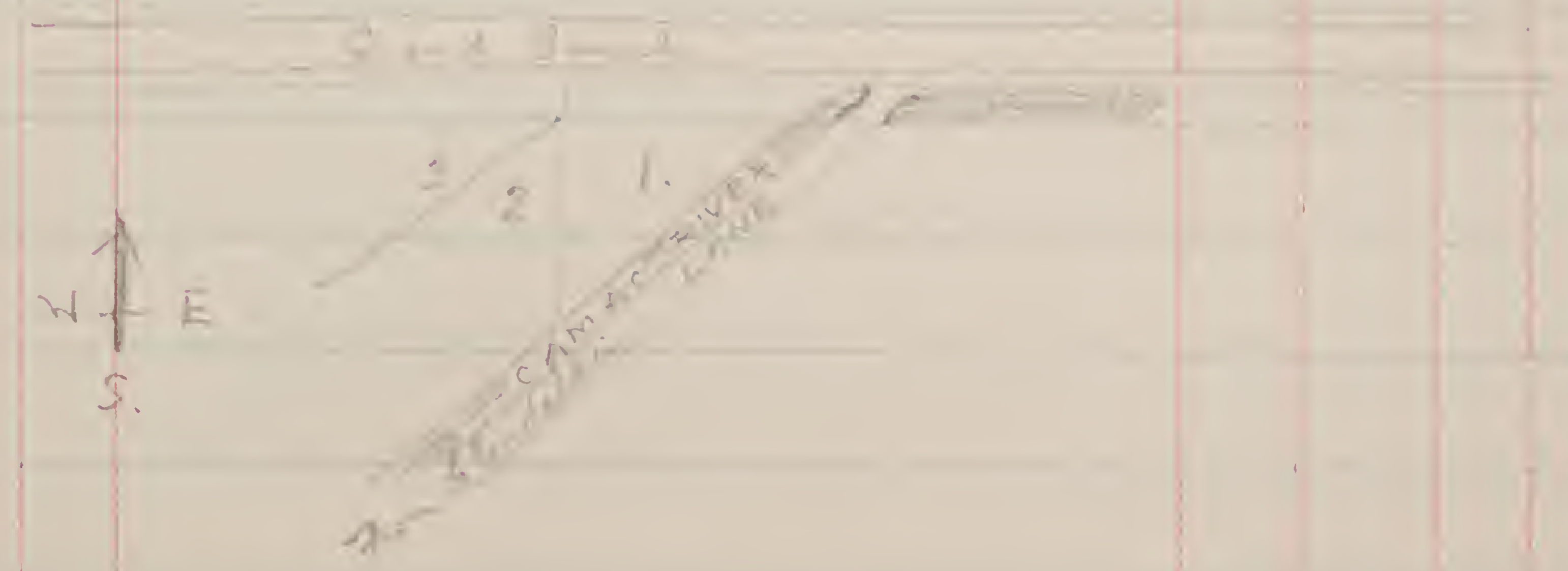
Cynipid [illegible]

---

26 Sept 1947. [illegible] Bracon [illegible], [illegible] 18, taken at light in drawing room, 14 Claremont Rd., Dublin, about 10 P.M.

300

1st Oct., 1947 (Wednesday). A most perfect day, all sunny with gentle W. breeze (E. along coast?), sun [illegible] in afternoon. In afternoon went to Killeen on Grand Canal, Co. Dub., & up thence to the Camac River where this comes down from 'Clondalkin' & collected in the area between the Camac & the Canal



as above: —
1 = Stubble cornfield, with [illegible] weedy patches, & along ditch at W. side of field with Carex paludosa, Spiraea, Salix viminalis & S. cinerea, &c.
2 = Cabbage field, with grassy margin in NE. angle of field
3 Small ditch along SE. side of grazing field, with [illegible] Sium, Water-cress, Apium, &c. for 100 yards from canal corner of field.

Many hymenoptera out, in fact very many, including dancing swarms of Blacus, the first time I have seen these dance.

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Tekam st 1.

1.10.47, cont. Grand Canal W. of [illegible], DD, cont.
[8 [illegible] for 1/2 hour [illegible] Oct. 1947.]

[illegible] : not 20 ; none [illegible] mostly [illegible]

M. [illegible] : none [illegible].

[illegible] 1♀, ent. 22

[illegible] 1♀ : not [illegible]

[illegible] large [illegible] = [illegible]

[illegible] ♀ : not [illegible]

[illegible] ♂♂ [illegible] 1♀ not [illegible]

[illegible] 1 not [illegible].

[illegible] 2 ♂♂. not [illegible].

H. [illegible] 1♂, 1♀, ent. 23 + 24 respectively.

[illegible] ♂♂, ♀ = S. [illegible] 1♂, 1♀, ent. both 21.

S. [illegible] } 2♂♂ small, ent. both 24. S. [illegible] ♂ large, ent. 25.

[illegible] ♂, ent. 20.

[illegible] 1♂ : not [illegible].

[illegible] ♂ + ♀.

C. [illegible] ♂

C. [illegible] ♂.

Metopia [illegible] ♂, ent. 23. [illegible] ♀ [illegible] p. 305

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Tekam st 1, cont.

1.10.47, cont. Grand Canal, W. of [illegible], DU., cont.

[illegible] ♂♂ in [illegible] especially
& several parties seen dancing in the sunbeams,
[illegible] 1♀ [illegible]. — [illegible] swarms!

B. [illegible] 1♂, [illegible] almost smooth [illegible]! [illegible] 18.10.47.

[illegible] ♂. [illegible] 1947!

Type! [illegible] 17.10.1947. [illegible]

[illegible] micropus [illegible] 1♂, [illegible] 1♀, very small eyes, [illegible]

[illegible] ♀♀ : [illegible] 1♀, ent. 22.

[illegible] 2 small ♀♀ : not [illegible]

C. [illegible] ♂ : not [illegible]. C. ([illegible]) [illegible]

[illegible] ♀ [illegible] ent. 23 C. ([illegible]) [illegible] ♂ : not [illegible]

[illegible] ♀♀ frequent, some [illegible]

D. [illegible] 1 small [illegible], ent. 23. [illegible] 2 ♀♀. [illegible] 1♂, 1♀.

D. [illegible] (♀ = [illegible]) 3 ♂♂, ent. 25, 27 & 27 [illegible]

D. [illegible] 1 small ♂, ent 24, [illegible]

D. [illegible] 2 ♀♀, ent. both 22. D. [illegible] 1♀, ent 2[illegible]

D. [illegible] 1♂ (ent 26), 2 small ♀♀ (ent both 23). D. [illegible] ♀, ent. 29.

D. [illegible] 1♀, ent 22

[illegible] 1♀, ent 24

[illegible] , ent. [illegible]

1.10.1947, cont. Grand Canal, W. of Killeen, DU.

Taken at 1, cont.

Aphodiidae very abundant, especially [illegible] [illegible], & Aphodius spp.

Also Sphaeridium [illegible] & S. [illegible].

[illegible] of [illegible] [illegible], [illegible] [illegible] : [illegible] [illegible]

[illegible] very abundant. 2 mounted: ♂♀ ([illegible]).

[illegible] abundant } none noted.
[illegible] abundant. }

Taken at 2. [12 months from 2 & then tabulated & put away Oct 1947.]

Cryptophagidae 13. 1 [illegible] [illegible] ♀ mounted

[illegible] [illegible] 6 ♂♂. }
[illegible] [illegible] 1 ♂. } none noted
[illegible] 1 ♂ }

[illegible] [illegible] ♀ small, [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] 1 ♂ not noted

[illegible] [illegible] 3 ♀♀. [illegible] [illegible] [illegible], not 21.

[illegible] [illegible] 1 ♂ 1 ♀, not [illegible], [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

1.10.47. cont. Grand Canal, W. of Killeen, DU., cont.

Taken at 2, cont.

D. [illegible], [illegible], [illegible] & [illegible] all present.

D. [illegible] [illegible] [illegible] [illegible] [illegible]

D. [illegible] ♂, not 24.

D. [illegible] ♂ & ♀. not noted.

D. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

D. ([illegible]) [illegible] 2 ♀♀ [illegible]

D. ([illegible]) [illegible] 1 ♂, 2 ♀♀. none noted.

[illegible] [illegible] 6 ♂♂ & ♀♀

[illegible] [illegible] ♀. }
[illegible] spp. 15. } none noted.
[illegible]. 8 }

[illegible] 2 [illegible]. = [illegible] [illegible]

[illegible] 1.

Taken at 3. [17 months from 3 & then tabulated & put away Oct 1947.]

[illegible] 5, [illegible] [illegible] spp.

1 [illegible] of [illegible] [illegible] not 22 =

[illegible] [illegible] ♀, [illegible] [illegible], not 27

[illegible] 1 ♀, [illegible] [illegible], not 24.

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1.10.47, cont. Grand Canal, W. of Killeen, Co. Dub., cont.

Taken at 3, cont.

[illegible] [illegible] [illegible], ext. 23, [illegible]

[illegible] [illegible] or [illegible]

[illegible] [illegible] = [illegible] [illegible] ♀, ext. [illegible]

[illegible] ♂. ♀ ext. 24.

Melanostoma mellinum ♀, ext. 22, [illegible] p. 30.

[illegible] [illegible] 2 ♀♀.

[illegible] [illegible] 2 ♀♀ [illegible] [illegible] [illegible]

D. [illegible] 7 ♀♀, ext. 20, 20, 21, 21, 21, 22, 23.

D. [illegible] 1 small ♀, std. [illegible] [illegible], ext. only 23/24.

[illegible] [illegible] 4 ♂♂, 1 ♀. 1♂ (ext. 24) & ♀ (ext. [illegible]) [illegible].

[illegible] [illegible] 1 small, dark, ♂, not std.

[illegible] [illegible] 3 ♂. not std.

[illegible] sp. n.? A marvellous ♀, with black legs & [illegible] abdomen, short stout [illegible], [illegible] [illegible] [illegible], & yet like a [illegible] = D. [illegible] [illegible] ?, ext. 23

4.10.47 at 5.15 p.m. [illegible] [illegible] at [illegible] [illegible], caught a flying [illegible] in the kitchen with my hand. Thinking it was a Drosophila, I [illegible] I thought squashed it hard, but [illegible] it was not dead, I gave it a good squeeze between finger & thumb. Finally, [illegible] it was still very much alive. On examining it I found it was a ♀ of [illegible] [illegible] [illegible]. The [illegible] was [illegible]!

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1.10.47, cont. Grand Canal W. of Killeen, Co. Dub., cont.

Taken at 3 cont.

Dicranomyia [illegible], [illegible], [illegible] & [illegible]: all represented; nearly all ♀♀.

D. [illegible] ♀.

D. (G.) uliginosa 2 ♀♀.

[illegible] [illegible] 2 ♀♀.

[illegible] [illegible] 14

[illegible] & [illegible] ?

[illegible] 3

[illegible] (large sp.) 1.

[illegible] counted

plenty of Small White & [illegible] butterflies; a few Small [illegible] & [illegible] [illegible]; No [illegible] seen

---

5th Oct. 1947. The sixth perfect day in succession, after a heavy dew & misty morning; all morning & no wind; [illegible] [illegible] for details. In afternoon rode with [illegible] [illegible] to Grand Canal, W. of Killeen, Co. Dub., as on 1.10.47 & collected in three areas, as follows:—

1 = Stubble field of oats & weeds, especially around [illegible] edge next canal. Part of station 1 of 1.10.47, see p. 300.

2 = W. edge (& ditch) of same field. Part of station 1 of 1.10.47.

3 = Ditch along S.E. side of field W. of 1 & same as station 3 of 1.10.47, see map on p. 300.

7
30 ~~8~~

5.10.1947 cont. W. of Killeen, Co. Dn.

Taken at 1 (oat stubble & weeds!) 3.0 till 4.40 P.M.

[3 hours [illegible] labelled Oct 1947]

[illegible] 6 ♂ 1 ♀ [illegible]

=

Stem[illegible] 3 ♂♂ = S. [illegible] 1 ♀ [illegible] 26 [illegible]

S. [illegible] ? 1 ♂, [illegible] 24

[illegible], [illegible], [illegible] & [illegible]

♀, 1 ♂ [illegible] ♀, [illegible] 25

Hom[illegible] [illegible] 1 ♂, [illegible] 23.

H. [illegible] ♀, [illegible] 21.

Mes[illegible] ♀ ♂ } [illegible]

[illegible] 2 ♂♂

[illegible] ♀ ♀, [illegible]

Bl[illegible] [illegible] 1 ♂, 1 ♀.

O[illegible] irregularis 1 ♂, 1 ♀.

O. [illegible] ? 4 ♂♂, [illegible] 21, 21, 22 & 22 : [illegible] dark!

O. [illegible] ? 1 ♀, [illegible] 24 [illegible]

O. [illegible] ? 1 ♀, [illegible] 24, [illegible] than [illegible] but [illegible] rather long for [illegible]!

Ad[illegible] [illegible] ♀, [illegible] 27.

Al[illegible] [illegible] ♀ [illegible] 30/31

[illegible] ♂

[illegible] 1 ♂, [illegible], [illegible] 27.

30
~~9~~

[illegible] ([illegible]) ♂

D[illegible] [illegible], [illegible], [illegible] [illegible], [illegible] [illegible] [illegible] 20. [illegible]

D. [illegible] ; [illegible] [illegible] [illegible], [illegible] 12 [illegible]

D. [illegible] 9 [illegible] ♂♂ [illegible] 5. 10. 47.

D. [illegible] 1943 [illegible] ♀, 1 ♂, [illegible] (25), ♂ (26) = [illegible] AV. [illegible] 1935

[illegible] 3.11.1947!

D. [illegible] 2 [illegible] ♂ [illegible] ♀).

D. [illegible] 5 ♂♂. [6 ♂♂ taken at same place by [illegible]).

[illegible] 26 ([illegible]) & 27 (1).

[illegible]

[illegible] & [illegible] 13. } [illegible]

[illegible] 12.

[illegible] 15, [illegible]

[illegible] 12 } [illegible]

[illegible] 1

9
376

5.10.1947, cont. — W of Killin, G. Dry, cont.

Taken at 2. ([illegible]). [[illegible]]

Cryptinae: 4

[illegible] ; [illegible]

Stenomacrus 5 ♂♂, 1 ♀ = [illegible] 1 ♂, 1 ♀, not both 23

[illegible]

[illegible], not all 25

[illegible] 1 ♂ [illegible] not old.

[illegible] nigritarsis ♀ not old.

[illegible] ♂♂ dancing in the sunbeam, but not so numerous as on 1st Oct. [illegible]

Drosophila obscura 1 ♂ & very small, not 23.

Opomyza [illegible] 5 ♂♂ not old.

O. [illegible] 1 ♀, not 25.

Pentapleura pumilio 1 [illegible] not old.

Alloea contracta ♀ : not old

Phaenocarpa conspurcata 5 ♀♀ of varying sizes [illegible]

P. [illegible] 1 ♂ (not 23) [1 ♂ also taken [illegible]]

Aspilota 3 = [illegible] ♂, not 18.

[illegible] ♀ [illegible] (not 18), [illegible], [illegible] right wing, [illegible] left wing =

Dacnusa areolaris, [illegible], [illegible] & [illegible]

D. [illegible] 2 ♂♂ not [illegible]

D. [illegible] 10 (♂ & ♀) not old.

D. [illegible] 1 ♂, not [illegible].

D. (G.) affinis 1 ♂, not old.

[illegible] & [illegible] 1 ♀ of each, not old.

[illegible] 5 ♂♂, not old.

Aphidius [illegible] 10, none old.

Procts: about 15; 1 ♂ [illegible] =

Chalcids 4: none old.

Cynipids 4: none old.

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311.

5. 10. 47, cont. W of Killeen, Co. Dub., cont.

Taken at 3. (see detail). [[illegible]]

Spilomena troglodytes ♀! Very late date!

Mimesa [illegible] ♂ ♀.

Opius [illegible] ♂, [illegible]: not ntd.

O. [illegible] ♀: not ntd.

O. [illegible] ♂, ant. 21, [illegible]

O. [illegible] ♀, ant. 35

O. elongatus ♀, large species, ant. 36: [illegible]

[illegible]

Pentapleura [illegible] 5 (♂ & ♀): not ntd.

= Aph. falcigera Graham, sp. n., E.m.m. XCV, 274–276, Dec. 1959.

Aphaereta fuscipes ♂, very small dark [illegible], ant. 25.

Alloea contracta ♀: not ntd. cf ♂ taken in [illegible], 18.6.43.

Aspilota dentifemur ♂, ant. 22, [illegible]

Dacnusa areolaris & [illegible] ♀♀: none ntd

D. [illegible] ♀: not ntd.

D. ([illegible]) [illegible] 2 ♀♀: not ntd.

Monoctonus cerasi ♂; not ntd.

Trioxys [illegible] ♂: not ntd

Aphidius [illegible] 13: none ntd

St[illegible] of [illegible] ♂, ant. 25

St. [illegible] ♂, ant. 18, ♀, ant. 17.

312.

Proctos. 11

Chalcids 3. none ntd.

Cynipids 3.

[illegible] ?

Diptera: minute species (? [illegible]) with head hidden from above under overlapping thorax!

8th Oct. 1947. A fine day with [illegible] but [illegible] than the previous week & strong S.W. wind after rain at night.

In afternoon went to Phoenix Park, Dublin, with Miss [illegible] Graham, & collected in the area near Furry Glen, as follows:—

1 = Bed of glen between top of pond & road to Knockmaroon Gate, especially by stream

2 = [illegible] bank of glen below pond & especially by spring near boundary wall, in glen.

Before

8.10.47, cont. – Furry Glen, Phoenix Park, Co. Dub.

Taken at 1. [[illegible] from [illegible] & then labelled [illegible] 1947]

[illegible]

[illegible] – [illegible]

[illegible] ♀♀ [illegible] (Graham)

Opius [illegible] 6 ♀♀ [illegible] 2 [illegible]

= [illegible]

[illegible]

[illegible] 2 ♂♂ ([illegible] (Graham)

[illegible]

Phaenocarpa [illegible] ♀♀ [illegible]

Aspilota 3 = [illegible]

A. of [illegible]

A. fuscicornis ♂, [illegible] 18.

[illegible] ♀♀) [illegible]

[illegible] – [illegible]

D. [illegible]

D. [illegible] ♀♀. D. [illegible] (Graham), [illegible] 35.

D. [illegible] 3 ♂♂.

D.(G.) [illegible] 5(♂ 4)

[illegible] 1 [illegible] 20, [illegible]

8.10.47, cont. Furry Glen, Phoenix Park, Dub., cont.

[illegible] 6.

[illegible]

Chalcids [illegible]

Cynipids 2.

Taken at 2. [[illegible] & then labelled 4.11.1947]

[illegible]

[illegible]

[illegible]

[illegible] 23

Phaenocarpa [illegible]

[illegible]

D. [illegible] ♀♀. D. [illegible]

D.(G.) [illegible] ([illegible]) [illegible]

[illegible] 24

[illegible] 13 [illegible]

[illegible] 12 [illegible]

Chalcids 6 [illegible]

Cynipids 2 [illegible]

14th October 1947 (Tuesday).

After a beautiful day on Monday & beautiful morning till 3 P.M., then cold winds, a sunless sky & occasional drizzle in late a.c. [illegible] in even. In afternoon cycled to Old Bawn Bridge (over Dodder) & up road towards Ballymaice, stopped by ruin of old castle or house near Marlfield & swept over sheltered parts of grazing fields for about an hour 3-30 till 4-30 P.M., when small [illegible] very numerous in spite of cold & dull condition & late season. Here swept the following :— [38 etc. in the cellar 31.10.47']

Fields near Marlfield, Old Bawn, Co. Dbl.

[illegible] pumila ? ♀ : not rtd.

[illegible] ? ♀, ext 28. Marked ? seen in [illegible] at [illegible], WM, on 18.6.1936'

[illegible] ♀, including 1♀ [illegible]

[illegible] 1♂ : [illegible], ext. 21.

[illegible] ♀ not rtd.

[illegible] pallidus ? ♀ & H. [illegible] : neither rtd.

[illegible] — St. [illegible] ♂, ext. 26.

St. [illegible] ? ♀, ext 21.

St. aff. palustris ? ♀, ext 22.

~~[illegible]~~ NO

14.10.47, contd. Marlfield, Co. Dbl., contd.

[illegible] 10, including 3 [illegible], as follows :—
G. [illegible] 1♀, G. [illegible] ? 1♀ & G. pallidus ? 1♀.

[illegible] 2 ♀♀, ext. 25 & 27 ([illegible]).
M. [illegible] ♂, ext 32. M. [illegible] ♀, ext [illegible] 21.
[illegible] : 2 [illegible] ♂♂, ext. 25 & 26.
[illegible] & O. [illegible] 1 small ♀ of each : not rtd.
[illegible] 5 (♂ & ♀) very small : not rtd.
[illegible] 1♂, 1♀, not rtd.
[illegible] 1♂, 1♀ : not rtd.
[illegible] 3 ♂♂, 1♀, all small : not rtd.
[illegible] 1♂, ext 29 { G. ([illegible]) [illegible] ♂, ext 18. G. (S.) [illegible] 1 [illegible] ♀, ext 17, [illegible].
[illegible] 12 = { A. [illegible] 1 large ♀, ext. 20. A. truncata m. 1 small ♀, ext. 16. A. nigrescens 2♂♂, ext 19 & 22. A. rubripes 2 small ♂♂, ext 17 & 18. 1♀, ext. 16. A. [illegible] ♀, ext 15. A. [illegible] 1♀, ext 19, prob. [illegible].
[illegible], [illegible] ♀, [illegible] ♂, ext. 23
[illegible], [illegible] 3 ♂♂, [illegible]
only the ♂ [illegible] rtd !

[illegible] ♂ & [illegible], one rtd, ext 16.
[illegible] & [illegible] [illegible].
[illegible] ? 1♀, also 1♂, ext. 11 of [illegible], ext. 13
[illegible] 1 : not rtd

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14.10.47, cont. [illegible], Co. [illegible], cont.

Aphididae app. abundant; mounted only the following:—

Aphis pseudoplatani ? ♀ mounted one tiny winged specimen.

A. [illegible] ♀, ant 19.

A. [illegible] ♀, ant 16, dark legs; also a ♂ ant. 20, with black legs — possibly same species as ♀.

Psocids abundant: 2 only mtd.

Chalcids abundant: none mtd.

Cynipids frequent: none mtd.

Diptera – Small

A large Apple tree on left [illegible] quite an abundant [illegible] with [illegible] Desmond [illegible] fruits of the [illegible] probably the winter [illegible] 23.10.47 [illegible] at first [illegible] 1944 & ref. to Reanimated (Sect. [illegible]) var. fraxinoides (H. Bot.) [illegible] Bot.

19th October 1947. A fine mild day after a fine night & day, almost entirely cloudless [illegible] sun in late afternoon [illegible]; very dry & windless in forenoon with [illegible] on hills, & slight in Dublin. Cloudless [illegible] — [illegible] at Leixlip; strong S–SW wind in afternoon at Leixlip; slight SE wind in Dublin.

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19.10.47, cont. Rye Water & Royal Canal, K.D., cont.

Left home about 12.30 & cycled to Louisa Bridge, Leixlip, Co. K.D. Collected by sweeping from 12 noon till 1.15 by the Rye Water (right bank) & N. of Aqueduct (& canal); nearly all insects taken at foot of bank [illegible] near canal & at bottom of next field to N. of this.

After lunch rode on W. along canal for 1/4 of a mile & collected in field of turnips & mangolds (same field as collected in in previous years); nearly all insects swept along W. side of field, but some at NW corner next road & along S. side next canal.

1 = Rt bank of Rye Water, N. of Canal.
2 = Field between canal & Maynooth road 1/4 mile W. of Louisa Bridge.

Insects taken at 1. [16 mounted from 1 & 2, labelled 25.10.47]

Cryptinae: 6 including Hemiteles spp. [illegible] ♂♂ & ♀ & Pezomachus ♀, ant. 20. No others mounted!

Pimpla brevicornis 1 large ♀, not mtd.

[illegible] [illegible] ♀, [illegible] ant. 24

[illegible] [illegible] 2 ♂♂ not mtd.

19.10.47, cont. Rye Water, Co. KD, cont.
Taken at 1 cont.

Thersilochid ♀ = ant. 17.
Campoplegid ♂ = ant. 37.

Apanteles fulvipes group 3 ♀♀ not std.
A. [illegible] ♀
Blacus ruficornis ♂ not std.
Sigalphus [illegible] ♀, ant 21.
Opius [illegible] 3 ♀♀ not std.
[illegible] 2 [illegible] ♀♀ not std.
Aspilota dentifemur ♀, ant. 18, small specimen.
Dacnusa areolaris, [illegible] 1 [illegible] ♀♀
D. [illegible] 1 ♀, ant. 23. D. [illegible]
D. [illegible] 6 ♂♂, 2 ♀♀
D. [illegible] 17, mainly small ♂♂.
D. affinis 1 ♀.
[illegible] 1 ♂, 1 ♀, both very small!
[illegible] 1 ♂
[illegible] 2 ♂♂, 2 ♀♀.
M. [illegible] 1 ♂.
Ephedrus validus 3 (♂, 2 ♀)
Aphidius sp. 1

19.10.47, cont. Rye Water & Royal Canal, KD, cont.
Taken at 1 cont.
Proctos. very common at 1. 15 & [illegible]

Chalcids very abundant at 1. 20 – [illegible]
Mymarid =

Cynipidae
Diptera
[illegible] =
Araneida

Coleoptera cont.

Taken at 2 [4-5 mounted from 2 & these labelled 27.10.47.]
Cryptinae 15 including (not std. 1)
[illegible] [illegible] ♀, ant. 31
[illegible] ♂ ♀, ant. 21.
[illegible] 1 = ant. 33, not std.
[illegible] ♀ = St. [illegible] (♂ ant. [illegible]), ♀ (ant. [illegible]); {[illegible] with [illegible] 25 – [illegible] and [illegible] [illegible] the ♀.}
St. of affinis ♀, ant. 22. St. of [illegible] {1 ♂, ant. 20 / 1 ♀, ant. 26, face black.}
St. of [illegible] 13 ([illegible]) ♂, ant. [illegible] [illegible] ant. 30
[illegible] [illegible] & [illegible] [illegible] not std. [illegible] [illegible] 25 [illegible] [illegible]
[illegible] [illegible] not std.
H. [illegible] not std.

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19.10.47, cont. R. Canal, K.D., cont.
Taken at 2

Thersilochus ♀ = [illegible] ant 8.
[illegible] 1 ♂ : not std.

Apanteles fulvipes grp., 1 ♀ (std.)
Sigalphus caudatus ♂, 1 ♀, ant 21 & 20, respectively.
Meteorus [illegible] ♀, ant 33.
M. [illegible] ♀, wings bitten off, ant 23.
Perilitus [illegible] ♀, ant 20, legs broken.
Blacus ruficornis 2 ♂♂, 1 ♀ : not std.
Diospilus obscurus large ♂ & ♀ : 1 smaller ♀, ant 28, 25 & 22 resp.
Opius [illegible] 2 ♀♀ : not std.
O. [illegible] 2 ♂♂, ant 22.
Alysia contracta 14 ♀♀ : none std.
Phaenocarpa [illegible] ♀ : not std.
Ph. ruficeps 2 small ♂♂ : not std.
Ph. [illegible] 1 ♂, ant 30
Adelurola florimela 1 ♂, ant 28.
Aspilota sp. 10 = A. [illegible] 1 small ♀, ant only 21.
A. [illegible] 1 ♂ ant 22, [illegible] A. [illegible] ♂ ant 12.
A. [illegible] 1 large ♀, very fine! ant 17.

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19.10.47, cont. R. Canal, K.D., cont.
Taken at 2

A. [illegible] ♂ ant 17. A. [illegible] 1 ♀, small, ant 15
A. [illegible] ♂, small, ant 9. A. (?) [illegible] ♀, pale legs, ant 22
Dacnusa [illegible] very common.
D. [illegible], [illegible], [illegible] & [illegible] (?)
D. [illegible] 2 D. [illegible] 2
D. [illegible] 2 ♀♀. [Mr [illegible] [illegible] !]

Monoctonus caricis 3 ♂♂. M. nervosus 2 ♂♂
Aphidius spp. about 2 dozen.

Proctos. very abundant : only 6 std. but these include –
Proctotrupes gravidator var. 3 large ♂♂

Chalcids : only a few [illegible] : none std.

Cynipids, 5 : none std.

Oct 1947. Taken by Mr S. Dudley Westropp in his garden at
10 St James' Terrace, Clonskeagh, Dublin [illegible]
Oedematopsis scabricula ♂, ant. 39.
[illegible] " ♀, ant 36.

26th Oct 1947. A cold dry day with strong breeze E wind,
mainly dull & gloomy in forenoon, but afternoon mostly
with bright & very hot sun in sheltered places, so that at
2-30 we got out on bikes & rode through Rathfarnham to
Whitechurch & home via Rockbrook, Mt. Venus & St. Michael's
(Cogans?) & Templeogue: from Willbrook to Whitechurch
walked most of the way, where we were sheltered by Marlay
wall & trees & sun very warm: much ivy in bloom
on Marlay wall & near Whitechurch & many insects
at the ivy blossom: 6 Red Admirals (and one sleeping
in sight at one time, the other two separate & not very active)
1 fresh ♀ of Bombus lucorum running hurriedly on wall outside
church at Whitechurch; many ♀♀ of Vespa vulgaris
at ivy near Whitechurch, & lots of Drone Flies,
Bluebottles & other Diptera. Collected a few
stems of Equisetum hyemale in lane near
Mt. Venus for Mr Holden of Southport.

5th November 1947. A very mild, dull, windy day, with easterly,
[illegible] day, after a mild day on 4th & stormy gale
with heavy cold rain on 2nd & cold wet day on 3rd.
Rode in afternoon to Glencullen, Sandyford & home
via Lamb Doyle's & Rathfarnham.

10th to 20th Nov 1947.
After very mild weather a sudden drop in temperature came
on 15th & on night of 15th there was slight frost. On the
following night, 16th (Sunday) there was a very severe frost
followed by snow on 17th 18th, with 3" of snow at
Templeogue & 2" in Kimmage; much snow on Dublin
hills on morning of 18th, but nearly gone below 1000 ft
on 19th, which was less cold. On 20th — the wedding
day of the Princess Elizabeth — we awoke to find the
temperature out of doors about 15 to 20 degrees higher than
when we went to bed & everything in the house covered
with 'sweat' from condensation on the cold surfaces,
& strong, hot, damp, SW wind blew all day!
On 16 saw a male (?) wasp fly from ivy blossom south
of Willington House, by the bridge over the Poddle,
& several flowers open on the Winter Heliotrope
at Templeogue Bridge

— till 2nd December 1947.
Cold weather with frosty nights prevailed for the most part, & on night
of 1st Dec. there was a very hard & sudden frost, when 12 dead
Chaffinches were picked up dead in Zoo on morning of 2nd &
several ducks frozen to death on the Zoo pond, although

Dec 1947, cont.
the lowest temperature I had recorded was 11 degrees below of frost. A few days later (? 5th) we awakened to find temperature outside like a "Turkish Bath" & for several days our cold house streamed with condensed moisture.

Mild weather continued from this on to under the influence of a large anticyclone which settled down over the British Isles, with barometer at 30.6 during week ending 16th Dec. During this latter period skies remained entirely cloudy & the sun or stars never seen, while an occasional drizzle kept the streets damp, until 16th when they dried for the first time for about a fortnight.

On 10th Dec the nose of first Snowdrops appeared above ground beneath the drawing room windows.

Weather continued alternately mild & cold till after Xmas, then on 28th 29th we had a fall of snow & very sharp frost, immediately followed by a really warm spell, which ended the year.

21.12.1947. On this date E. O'Mahony took a [illegible] of [illegible] on the [illegible] of a Field mouse (Apodemus sylvaticus) nest on the N. Bull, Dublin, of Beetles in specimens.

1948.

The year opened warm, with very hot sun, so that on 2nd Jan. I saw, but failed to capture, a ♀ Ichneumonid, about ½ inch in length, on outside of the window of my room in the Museum: it looked like a ♀ [illegible]!

Weather continued mild with very heavy rain at intervals, 3rd, 5th, 8th &c., causing heavy floods in parts of the country, with gales all around coasts, &c.

On 13th the early snowdrops under drawing room window were ready to open & may be said to have been in flower.

On 15th During our walk from Crumlin Cross to Rathfarnham, via Willington House & Butterfield Lane, saw several clumps of Snowdrops in flower at "Templeogue" with a B. Lane, & well in flower in the deep purple "Primrose" & yellow Polyanthus primroses.

Swans. The pair of swans which have nested on the canal above Portobello Bridge, Rathmines, normally drive the young away about Sept. or Oct., but this year have permitted two to remain till 1st week in January; they disappeared about 7th or 8th! The pair which last year

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January 1948, cont.

reared a brood between Charlemont & Leeson St. Bridges drove their brood of three away about two or three days later — I saw the parents & three young on Sat. 10th but not after that date. Both pairs have obviously decided that the spring is near! I hope they are not mistaken!!

16th 17th January '48. A frosty night, succeeded & followed by rain, gales & mild weather. Snow fell in N. England & Scotland, but none in Dublin or district. Thrushes & Missel Thrushes now singing regularly in various places.

25th Jan. 1948. Mild again, with much rain. In the afternoon [illegible], George & I took train to Firhouse & walked across Boddeen & via Tymon Castle & The Green Hills, back to Crumlin cross-roads, where got 6.54 bus home. By the river NW of Tymon Castle saw [illegible] a Hazel with both ♂ & ♀ flowers open.

28th Jan. '48 Still v. mild, with frosty nights. One second Snowdrop under drawing room window opened! Green spikes of Crocus shoots against motor house wall showing through dead foliage!

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8th Feb 1948 Extraordinarily mild, dry day, with sun at intervals through the drizzle, strong SW wind; after a week of gales from SW, very mild & much rain.

On 4th Snowdrop out under drawing room window & 1st yellow Crocus out — full open in sun — though one its [illegible] not seen till 6th & no sign of yellow [illegible] in the others beside it in border to front gate.

11th Feb 1948 Very mild & [illegible] sunny. 2 Swans on Grand Canal above Portobello Bridge, the [illegible] [illegible] for nest & the [illegible] sitting, [illegible] & getting material around the nest in a playful way — not [illegible] serious!

13th Feb '48 Still mild & gale abated. Two Crocus of Crocus opening by path to front gate. Yellow Saxifrage (S. apiculata) in west border front garden nearly out, but no sign of purple buds on any S. oppositifolia.

14th Feb '48 Two yellow Crocus appeared since yesterday by path to front gate & nearly out at 9 A.M. Red shoots on Paeony under drawing room window about 2 inches high. Bees [illegible] Blackbird [illegible] singing in various gardens in the district & [illegible] what a few days ago.

15th Feb 1948. A fine day with much sun in forenoon, & still mild, but wind turned E. in afternoon & then dull & cooler. Afternoon took bus to Whitechurch, [illegible], Mervyn, Graham & I, & walked via Rockbrook, Mt. Venus, 15.2.48, cont.

to Old Bawn & so home by bus. Saw Curlew in field, & dead frog on the way, but no other sign of spring until we got into town, when boys selling "palms" carrying home armfuls of "Pussy Willow" (or Salix caprea or cinerea?) which were far advanced towards flowering. Dead frog seen squashed on road!

16th – 22nd Feb 1948 Wind E to NE, cold & very strong at times, with skiffs of snow & hail, gradually increasing, until considerable falls on 21st & everything white by that evening: more snow during night & skiffs in forenoon of 22nd, but thaw started about breakfast time & with some bright sun about midday snow rapidly melting on streets, but not in garden, & former clean & dry by night.

About a dozen crocuses (yellow) now out in front garden.

23–27th Feb 1948 Still dry & cold with E wind, but lovely sun on 25th & 26th. On aft. of 25th rode (alone) to Jobstown, up boreen to [illegible] & home by Old Bawn & Firhouse. On 27th one purple bud on small form of Sax. opp. in back garden, but not open. Hard frost on night of 25th–26th.

27th–29th Feb Becoming milder, dry, mainly dull.

In afternoon (29th) walked from [illegible] to Bally[illegible] in company going & back with Maura, Graham & Doris.

28th Feb 1948. Both [illegible] of Swans building on [illegible] near Portobello Bridge!

1st March 1948. Lovely mild day with [illegible] sun practically throughout & wind very light. First part of the day [illegible] here ([illegible]) & spent morning in garden, [illegible] almost for the first time since [illegible].

The Mediterranean Heath with flowers open & most buds with some nearly ½ open, [illegible] in date of flowering than in [illegible] very late. Two flowers on Sax. opp. practically open — small form from Snowdon in W. border of back garden sent me, two years ago, by [illegible] Oldham. Replanted cuttings of Salix phylicifolia & Salix repens? sent me in Oct 1946 by [illegible] from Glenasmole (S of [illegible]) & [illegible] respectively: these were started in box ground & [illegible] garden when I went to Scotland at end of May 1947 — the phylicifolia from my station on slopes of the Glenasmole where I took the plant in Oct 1935 but at that time did not know what it was — except that it was a Willow new to me — named "phylicifolia?" by R.Ll. Praeger & "certainly phylicifolia" by R.D. Meikle (now on staff of Kew Gardens. In front garden on this day

1.3.48, cont. Garden & Glendalkin, Co. Dn.

The first flower opened on the yellow Iris [illegible] in the border of front garden, & on [illegible] Blue [illegible] S.W. corner. Several flowers on both [illegible] [illegible] [illegible] ready to open & small Almond tree in front garden is also ready to open.

In afternoon Daisy & I rode on bikes to Glendalkin & went on to Grand Canal & up it to the [illegible] [illegible] [illegible]. Saw plenty of Coltsfoot in flower on both sides of the road, but nothing at the [illegible] [illegible] [illegible] [illegible] & beetles & no Hymenoptera.

Saw the [illegible] [illegible] flying in [illegible] at the [illegible] at the Water Tower on top of hill E of Glendalkin at 3 P.M. on outward journey, & then [illegible] [illegible]. Late [illegible] [illegible] [illegible] [illegible] [illegible].

Coming [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. On return journey we approached gently

1.3.48, cont. Glendalkin, Dn., cont.

[illegible] hunted on [illegible] [illegible] [illegible] from the [illegible] [illegible] [illegible] [illegible], but there [illegible] [illegible] [illegible].

2nd March 1948. A beautiful sunny morning, but [illegible] in afternoon & did not go beyond the garden.

3rd March 1948. A most perfect sunny forenoon, but afternoon dull [illegible] day. In afternoon went to [illegible] & went up Glencree as far as [illegible] [illegible] [illegible] [illegible] [illegible] Miss Thomson [illegible] [illegible] [illegible] yet in flower [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] to force the Dodder to keep a straight course, instead of zigzagging about & cutting into its banks at the bends. All the river bed banks [illegible] destroyed & [illegible] natural ground [illegible] [illegible] to follow [illegible] the big clump of Rosa spinosissima × tomentosa (?) on E. bank 200 yards above Mr. Boyle's, which had been gradually undermined by the river & was nearly gone [illegible] by [illegible], but I think [illegible] [illegible] [illegible] [illegible] will [illegible]. I discovered the hybrid rose about 1921, at which time it was many yards from the river bank & covered an area of about 20 square yards

3.3.48, contd. Glenasmole, Co. Dub., contd.
growing near both parents, but looked like the [illegible] parent in R. tomentosa & mollis. It is a very pretty rose, 3 to 4 feet high, with the creeping habit of spinosissima, dark pink flowers, very mixed prickly stem, & opening [illegible]-coloured fruits as large or nearly as those of tomentosa.

4th March 1948. A foggy day till late afternoon, when after a few showers an easterly breeze sprang up & the sky cleared. Walked in afternoon up R. Dodder from Dartry to Rathfarnham Bridge. Several ♂ Salix viminalis (?) on left bank 300 yards below Rathfarnham Bridge with many flowers out (evidently for about a week).

5th March 1948. A beautiful day, all blue sky & sun after a misty night & early morning.
At 2 P.M. while in back garden heard a Bumble bee & located it at the ♀ Salix viminalis catkins. It was a ♀ Bombus terrestris & subsequently watched her for some time moving herself on the wall of the rabbit house.
At 4.30 left home on bike & rode to Larch Hill via Whitechurch & Kilmashogue & spent half an hour

5.3.48, contd. Larch Hill, Tibradden, Co. Dub.
in the disused & overgrown [illegible] sandpit there. Caught 1♀ Pogonocherus , 3♂♂ Aphodius & 2 Syrphids (mounted the Pogonocherus & 1♂ Aphodius only). Coltsfoot & Dandelion the only wild flowers seen out in the sandpit, but also one Yellow Gorse in flower in bed of the old pit.

6th March 1948. Another perfect day after a cold foggy night with slight white frost. Sun even hotter than on 5th. Wind slight, westerly, but in afternoon [illegible] from [illegible] in the hills [illegible] from SW., though wind felt cold at night.
In afternoon rode via The Green Hills to Whitehall House & Fortunestown & home via Tallaght & Killinarden House. [illegible] (same [illegible] 1947)

7th March 1948. After wind from SW & some rain during night, a [illegible] morning with wind but was very mild, but strong SW. wind & dull in afternoon with showers in evening. Almond in Kenilworth Park & Chionodoxa in front garden in flower.
In afternoon we took 2.25 bus to [illegible]

7-3-48, cont.

I walked up the side of Glenasmole park [illegible] to the [illegible] the upper side & [illegible] back [illegible] water works to [illegible] [illegible]. Very [illegible] & saw nothing of interest. Forsythia out in some gardens.

8th March 1948. Morning dull & very mild, but strong S.W. wind. Fed [illegible] for first time this year. About 11 AM saw [illegible] of [illegible] [illegible] of [illegible] [illegible] on [illegible] in back garden. Mr Roberts came to photo. the [illegible] of [illegible] from Glenasmole [illegible], which are so very different in appearance [illegible] than [illegible]. [illegible] calling to [illegible] in back garden [illegible] of Vespa (germanica or vulgaris) flew across garden & into Westfield Road. Chionodoxa out in front garden, several flowering; see p 334.

9th March 1948. All sunny but with strong [illegible] wind. [illegible] hot [illegible] the day [illegible] reported to be the hottest [illegible] March [illegible] in Dublin temperature of 71 F was recorded. Spent morning in garden & [illegible] of [illegible] mainly [illegible]. In afternoon went

9.3.48, cont.

by bus to Botanic Gardens, Glasnevin, & spent an hour there. [illegible] & [illegible] Bumble-bees (females, [illegible]) [illegible] [illegible]. [illegible] (single) out in front garden.

10th March 1948. Another very hot & all sunny day, but N breeze cooler & [illegible] than on 9th. Spent morning in town & [illegible] in afternoon walked to Island Bridge, through Phoenix Park & home via Kilmainham & the Green Hills.

11th March 1948. All sunny above & very hot [illegible], with gentle E draught [illegible] Dublin, [illegible] from [illegible] [illegible] strong from S.W. Spent morning in garden & saw Small Tortoiseshell butterfly, [illegible] (1♀), [illegible] (several [illegible]). 1st daffodil out in back garden in afternoon. Chionodoxa now with dozens of flowers. [illegible] front dining room window. In afternoon rode to Glenasmole, left bike below town [illegible] & went along top of [illegible] on E side of [illegible], where the old bee bank now nearly destroyed by [illegible]. Some willows out here & there, & also [illegible]

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11.3.48, cont. — Glenasmole, Co. Dn., cont.
Brimstone (first I've found?); Small Tortoiseshell & Peacock Butterflies; Anthocoris nemorum (Hemiptera); Bombus lucorum ♀♀ common, B. jonellus ♀ on ♀ Salix; clouds of Chironomids dancing in sun; Coccinella [illegible] & other [illegible]; [illegible] ♀♀ running about in sun. [illegible] not yet in flower, nor Viola [illegible]. The [illegible] course of the Dodder below the dam [illegible] & all the [illegible] has been damaged by the operations.

Swept the following hymenoptera either on slope of lower dam, or on the top stony wall, or in [illegible] field above its eastern end :— all mounted (8).
Epitomus pygmaeus ♀, cat. 23, mounted [illegible].
Pezomachus fasciatus ♀, cat. 21, by wall on top of dam.
Microctonus [illegible] 2 ♀♀, cat. [illegible] 16.
Gelis [illegible] ♀ [illegible].
Chalcids 2 & both swept off ♀ Salix [illegible] at head of 1st [illegible].

Cynipid 1

338

12th March 1948. Another beautiful day, E breeze, almost all sunny but in late afternoon some clouds came up from S.W. Back in museum & nothing to report except that first flowers on Flowering Currant bush in back garden.

13th March 1948. Mainly dull & fine with [illegible].

14th March 1948. Sunny forenoon with strong S.W. wind, which brought up heavy clouds about 2 PM & [illegible] after 5 PM. Left home on bike about 11.30 & took lunch [illegible] for first outing of the season; rode against wind via Clondalkin & [illegible] to Hazelhatch, to [illegible] & then down [illegible] side of Grand Canal into Co. Dublin, where had lunch in sun [illegible] Salix [illegible] in flower & watched bumbles at the catkins. Bombus terrestris, B. lucorum ♂ & 1 ♀ almost certainly, B. hortorum — too large, dark coloured & too long a face for B. jonellus. No other hymenoptera seen & none swept owing probably to high wind.

17th March 1948. St Patrick's Day. In museum. A very bad day, cold & with heavy rain. [illegible] Portobello Bridge [illegible], but [illegible] fully [illegible] yet [illegible].

18th March 1948. A fine day! Anemone apennina in flower in front garden; Carex montana almost in flower after rain in back garden. First flowers on Forsythia 'cutting' in front garden [illegible] last Oct.

20th March 1948. A fine day, with strong SW. wind & sun very hot in afternoon. Leaves on Birch are just unfolding & showing green, but not yet in leaf.
At 1.50 PM a ♀ Bombus agrorum flew past me in back garden & lit on flowers of Mediterranean Heath – the first agrorum of season!

21st March 1948. After a fine early morning & strong wind over night, rain started about 10 AM, which [illegible] & [illegible] as a "cold front" or a [illegible], came from NW. Rain lasted till about 3.30 PM, but cleared just as we went out to [illegible] the bus to [illegible] Cross Lane, from where walked to Wellington House & home via Battlefield Lane & [illegible] & thence home. Saw a good deal of Blackthorn in flower along roadsides between [illegible] Lane & Wellington Ho. & near [illegible] Lane. Also Hawthorn bushes out below Wellington House & Poplar in Battlefield Lane (♂ catkins).
Just before starting out & while still raining a Bumble Bee flew past me in back garden, but species not seen.

22nd March 1948. Bombus [illegible] ♀ at flowers of Flowering Currant in back garden at 2 PM. Flower spikes on Currant [illegible] by [illegible] [illegible] well showing, well up!

22.3.48, cont. At 2 PM saw ♀ sawfly Pteronidea ribesii investigating buds of White Currant in back garden, though the particular bush only a few buds showing a sign of opening & none really in leaf. White Currant against [illegible] [illegible] NW corner, with several flower trusses out.

23rd March 1948. A beautiful sunny morning & evening, but dull in afternoon, with frost (slight) at night.
During lunch saw Bombus pratorum ♀ at flowers of Mediterranean Heath in back garden; also one ♀ B. agrorum [illegible] [illegible] in cushion of Saxifraga [illegible] bed, & in a patch of [illegible] in W border back garden.

24th March 1948. A most perfect day after a slight frost, very hot sun all day & practically no wind, gentle breeze from S in [illegible] & from E [illegible] [illegible].
At 2 PM saw Small White Butterfly in back garden chased over wall by a Peacock Butterfly, which returned & [illegible] [illegible] on E border, also ♀ B. terrestris on Flowering Currant. Old flowers on S side of Kerria bush out & a whole spray of flowers at top of bush.
Red Saxifrage in front garden ready to open

24/3/48, cont.
Clump of Saxifraga [illegible] in back garden just in front looking like a snow-white ball of some flower lying on the ground — the white colour being due to [illegible] — like this [illegible], [illegible] in an night [illegible]. Saxifraga rotundifolia, also from Brandon, showing flowers for first time this season, the [illegible] badly eaten down by slugs during winter & early spring & appeared to be dead till today.

In afternoon rode to town down in Glenasmole & heard about six chiff-chaffs singing between [illegible] & scrub below R.C. Chapel at Bohernabreena & the dam. Also saw several ♀♀ of Bombus terrestris by roadside at Bohernabreena & some ♀♀ B. lucorum by lower reservoir, & 1 ♀ Andrena clarkella on bank by [illegible] in waterworks where 1931 flood washed away roadway. While Daisy watched bicycles I went up along top of conduit & into 2nd wood to get more of the tufa-forming moss.
[illegible] [illegible] came out of the [illegible] [illegible] for [illegible] [illegible], [illegible] the [illegible] in the variety in [illegible] in fruit, though fruiting freely at the spot. Blackthorn & Primroses both now well out amongst scrub along conduit.

6 or 8 Small Wht. Butterfly [illegible] 27th [illegible]

25th–27th March 1948. Cloudless beautiful days, with E wind gentle on 25th & 26th but strong & raw [illegible] on 27th.
28th March 1948. Forenoon cloudless & with strong E wind & no hint of a break in the weather till 2 P.M. when clouds appeared & covered sky, the lower clouds coming from SE.–E, the upper from SW–W.
Took bus to Crumlin Cross & walked via the Greenhills & Tymon Castle to Firhouse & home by bus.
Saw Lamium galeobdolon just in flower in ditch opposite farm house 1/4 mile S. of Tymon Castle ruin & took two specimens as it is unlikely to remain here much longer. Heard nor saw any migrant birds & few insects out by this time, as by the time I reached Tymon Castle a break in the fine weather was [illegible] & rain only a matter of hours. A slight sniff of rain before bed-time & more between that & dawn. Glass falling slowly & steadily.
29th March 1948. Easter Monday.
On duty in Museum. A very fine midday after a doubtful morning, but a sudden change about 4 P.M. heralded approach of a depression, still no rain till about 6.30 P.M. then torrents, with SE wind till I went to bed. Barometer dropping headlong all evening & had not turned the corner at 11 P.M.

30th–31st March 1948. Very strong SW gale & [illegible] [illegible] recovered from the dip to 28.5 inches about dawn on 30th.

1st April 1948. Bright morning interrupted by terrific showers of hail, sleet & rain. I took my half day (Thursday) & about 1.30 PM a hail shower left the grass in front garden buried in hail-stones, though these melted in the full on the roads & pavements.

2nd April 1948. Another depression with steep fall in glass till 4 PM. Wind very cold & SE in forenoon, turning SW when glass turned & dropping. At 5 PM heavy snow starting to fall & fell for an hour & more before then. Davie reported the hills are covered in great white with snow to well below 1,000 ft. By 8 PM stars out & very cold, but without wind. Glass rising & snow did not lie even in garden. Many thorn hedges now green, pear-trees in full flower & at least one apple-tree in flower at NW corner of [illegible] Park × [illegible] Road. In back garden Carex [illegible] × C. [illegible] & C. rigida × goodenowii ? ([illegible]) in flower. In front garden Draba [illegible] in flower for a week & old plant of Euphorbia [illegible] with heads 6 inches high. Pink Primroses in back garden in flower a few days before. Leaves on [illegible] Salix [illegible] from Glen [illegible], by L.E. unfolding & also on the twiggy Salix from Glenshee

2.4.48, cont.

Leaves also on Salix reticulata brought from Scotland in '47 & small-leaved species (Salix [illegible]) from Loch na Lairige in Perthshire, & Betula nana ([illegible] 1909. S.H.S.) almost green with leaves.

4th April 1948. One of [illegible] Saxifrages from the [illegible] Glen, [illegible], SK, with two flowers almost open after snow showers, hail, rain & frosty night.

6th April 1948. After cold & rather poor weather, though often hot & sunshiny, this day very warm & [illegible] with S–SW gale. A real growing day, only for wind! [illegible] Island Mossy Saxifrage in W. border of front garden, almost always the first native species to flower, this almost out. Red garden Saxifrage [illegible] in front garden now quite full out, but its white companion only just showing bud.

7th to 10th April 1948. Weather improving but cold nights & some heavy showers of hail & rain, warmer on 10th with thick drizzle & heavy rain in afternoon. [illegible] SE–SW gale. Odd Bumble bees seen in garden during this period, so all not dead. One ♀ B. lapidarius seen on 7th; ♀ B. [illegible] on Flowering Currant at 7.30 PM on 10th with heavy load of pollen; also B. lucorum & B. terrestris.

11th April 1948. A beautiful day & still sunny between 9 AM & 5 PM, then cloudy; SW breeze & very hot sun. Spent morning in garden & saw several Small White Butterflies, [illegible] ♀ at Mediterranean Heath, many Honey-bees, 1 ♀ of Salix [illegible] at [illegible], & B. lucorum & B. terrestris ♀♀ [illegible] on the flowering Currants, & Black Currants the latter just coming into flower.

The afternoon rode to Clondalkin & up the Grand Canal for a mile to Davy Farm gate, where collected by sweeping for an hour or after tea. Chiffchaffs by canal but no Willow Warbler or other migrant seen or heard. Several Bombus lucorum ♀♀ seen & others heard. Andrena nigroaenea ♂♂ seen by quarry above (E of) Clondalkin. Swept drain parallel to & S of Canal at dairy farm gate & hayfield S. of same at same place & here took the following:—

S. of Grand Canal, W. of Clondalkin, Co. DU.

[12 mounted & these labelled on 10.5.1951]

[illegible] [illegible] [illegible] ♂, ant 21

[illegible] mainly ? 3 ♀♀, ant. 23 & 24.

[illegible] 2 ♂♂ 1 mtd ant. 32.

Aspilota nigrescens ; 1 mntd ♂ ; ant. 33, very black legs. 1st Aspilota of the season!

11.4.48, cont. Canal, W of Clondalkin, Co. DU, cont.

Dacnusa [illegible] 1 ♀, [illegible]

D. [illegible] ♂♂ & ♀♀ 4.

D. [illegible] 2.

D. [illegible] ♂♂, ♀♀, 4. } none mtd.

Monoctonus [illegible] ♂, ♀ 2

M. [illegible]? 2 ♂♂ 1 ♀, ant. 17, 17 & 16.

Aphidius sp.? abundant ♂♂ & ♀♀: 1♂, 1♀ mtd., ant 19 & 17.
= A. ulmi?
2 Chalcids mtd. =

Psocids, [illegible], Chalcids, a few of each group

12th & 13th April 1948. Very fine weather, mild, still and hot sun & [illegible], mostly [illegible].
Small White Butterflies now general, many [illegible] & [illegible] flowering & [illegible] in suburban gardens, & many plants in my garden coming into flower, including [illegible] [illegible], [illegible] [illegible] ([illegible]), [illegible], [illegible] of [illegible] (formerly of [illegible]), [illegible] garden many Saxifrages (in front garden); [illegible] Hieracium from [illegible], produced one flower spike. One of the young frogs released in back garden but was seen at [illegible] back door on morning of 13th.

P.T.O.

14th April 1948, contd.

In afternoon drove in car, which has not been on the road since 18th Oct, [illegible] [illegible] of [illegible] [illegible] of the differential, to Crooksling & Brittas Road, & back via Saggart & Tallaght lane. Stopped for an hour in lay-by on the side of Slade of Saggart & swept, where anything to sweep, under trees, mainly on left bank of stream & along road. [illegible] for [illegible] the following taken:—

Slade of Saggart, Co. Dub.

3.30 – 4.30 P.M.

[illegible] [illegible] ♂ ent. 21 =

[illegible] clypeata ♂ & ♀, ent. 20, elongate segment, long [illegible], [illegible] protruding, yellow clypeus. Type! H.W.S. N.S. 1951.

[illegible] ♂, ent. 22

Apanteles [illegible] ♂ & ♀

Aspilota [illegible] ♂, ent. 23.

G. (Syrphidae) [illegible] ♂♂, ent 21, 21 & 22.

[illegible] [illegible] var. [illegible] 6 (♂ & ♀)

D. [illegible] 2 (♂ & ♀). D. [illegible] 1♂ } none mtd.

D. [illegible] 5 (♂ & ♀)

[illegible] 5: 3 mtd.

Chalcids 5: 1 mtd. Beetles 3: not kept.

Cynipids very common but only 1 [illegible] taken: not mtd.

15th 16th April 1948. Two beautiful sunny days, but cold wind. Barometer started to fall towards evening of 16th.

17th April. A beautiful morning & forenoon, but drizzle & finally heavy rain all afternoon & evening, until after midnight.

18th April. Everything very wet & fresh looking in morning, but dull & threatening, then [illegible] [illegible] gradually clearing & sun out about 5 P.M. First day of summer time! Was on duty in Museum in afternoon.

Great surge of growth following the rain & many things like Mr Ellis's White Lilac in flower. White [illegible] in front garden now well out. Orchis mascula in back garden with 3 flower spikes & flowers just opening — this plant with unspotted leaves brought from near Torr Head Co. Antrim at Easter 1913, also Columbine in front garden.

19th April. A foggy morning & dull, damp day, but no rain.

20th April. A similar morning after a night of heavy dew, but rain started about 10 A.M. & lasted till 12.30 P.M., with E. breeze along coast & S.W. inland. Sun came out about 1 P.M. & very hot sun all afternoon, though wind still E. over east Dublin. Euphorbia [illegible] (milk plant) actually in flower, although a few days ago only six or eight inches high. Great growth!

21st April 1948. A dull foggy day, with drizzle & the heavy rain in late afternoon & evening.

22nd April. (Thursday). After a damp night with thunder about, a dull fine morning, with slight drizzle at times & showers about in afternoon; late afternoon & evening very fine & sunny, but colder, as wind went from SE to S. & then SW.

Drove in afternoon to Johnstown & walked up bohereen to Tumbling Pool & onto top of moraine mound ½ mile SW. of pool. Many Willow Warblers about Johnstown, & 2 Swallows seen there on return journey. Besides Tumbling there are several other small tarn-sites filled with rushes W. of the bohereen, which I had not noted before. Ranunculus Lenormandi looking very fine & in full flower around edge of Tumbling & also by roadside pool where the bohereen enters the "Commons". Montia fontana & Luzula campestris also seen in flower at 1150 ft., but vegetation otherwise showing little sign of growth.

[Horse Chestnut in Harcourt Terrace in full flower on this day & Mr Maurice Dalton reported a Wood White Butterfly (L. sinapis) in his office in S. Frederick St.]

23rd April 1948 A ♂ Apanteles difficilis? emerged from a buff cocoon spun by a larva, ex a Geometrid larva taken 25.8.47 by R. C. Faris at Kells, Co. ME.

25th April 1948. A most perfect day, natural but warm with pleasant easterly breeze. Drove in car (myself, Evelyn, George (home for weekend) & [illegible]) to Lucan Bridge arriving at 11 AM, collecting about Lyle Water till 12.20, then drove on to [illegible] (13th) lock [illegible] of Lucan Bridge & walked back to plantation at Collinstown house, & around plantation [illegible] in afternoon. Lunched at 1 PM, left for home at 3.30 & home [illegible] by 4 PM.

Very few Swallows seen, also Willow Warblers.

First dragonflies: Pyrrhosoma nymphula teneral.

Lyle Water, Co. KD. (= 1) [4 only mtd. From 1 others labelled on 13 5 1951.]

Bembidion [illegible] on [illegible] near [illegible] canal.

[illegible] ♀ ([illegible]).

Cryptinae 2 ♂♂: none mtd.

[illegible] ♂ ♀: not mtd

Stenomacrus moerens? ♂, mtd. 24. St. curvicaudatus ♀, mtd. 26.

[illegible] 2♂♂ not mtd

[illegible] ♂, mtd. 24 = A. cf. excavata ? exceptional [illegible] again mtd.

[illegible] none mtd.

[illegible] 2♂♂ not mtd} [illegible] validus ♂, mtd. 11

[illegible] ♀: not mtd

[illegible]: not mtd

250

25.4.48, cont. R. Carnel, Co KD

[illegible] = [illegible] = 2 [1 mounted from [illegible] there labelled 2.9.51.]

[illegible] [illegible] : [illegible], ent. 28.

[illegible] 10 [illegible] mounted =

[illegible] [illegible] ent. 27

[illegible] [illegible] [illegible], ent. 21. [illegible]

[illegible] ♂♂, [illegible] = P. [illegible] [illegible] large, [illegible] ent. 19.

P. turionellae [illegible] ♀♀, ent. 23, 29, 29 & 30.

Homocidus tarsatorius 1 small ♂ ent. 22 Orthocentrus sp. [illegible]

[illegible] [illegible] none mtd

White [illegible] [illegible] seen [illegible] at [illegible]

[illegible] [illegible] [illegible] not mtd

[illegible] [illegible] ♂♀ [illegible], not mtd, ent. 27.

[illegible] [illegible] 1, ent. 16.

[illegible] [illegible] ♂, ent. 19

[illegible] [illegible] [illegible] [illegible], not mtd

[illegible] 6: none mtd.

[illegible] [illegible] & [illegible], [illegible]; none mtd

[illegible] ♂ not mtd

[illegible] [illegible] ♂♂ & ♀♀ [illegible] : none mtd.

251

25.4.48, cont. R. Carnel KD, cont.

Proctos: 2 mtd

[illegible] : [illegible] mtd. =

Also 1 ♀ [illegible] distinctus taken, with large?

25.4.48 cont.

Apple trees in gardens in full flower, Cotoneaster in bud, [illegible] just coming out; Sycamore in leaf at R. Carnel, but Crab apple there & Blackthorn not quite in flower; Oak in flower & bud with leaves on a few branches; Hornbeam trees coming into leaf; Salix purpurea by R. Carnel in full leaf, but S. caprea only just "sprouting"; [illegible] with a few flower spikes & [illegible] galeobdolon coming into flowering; Hawthorn with white buds, but none out.

2nd May 1948. A fine cold day with much bright sun & a few heavy hail showers after 2 P.M. Drove to Athdown, upper Liffey Valley, Co. Wk. with Keith Lamb & Maurice [illegible], reaching there about 11.30 A.M. Showed [illegible] (= R. [illegible]) to Lamb & also [illegible] Orobanche major & then collected with [illegible] both above & below the footstick on both banks of the river. 1st May had been very cold with very heavy hail & rain in Dublin, & had snow on the higher hills & Kippure & the Mullaghcleevaun range quite white above about 2,300 ft. — the snow-line being extraordinarily sharp & just above the line of [illegible] [illegible].

1 = Scrub on right bank of Liffey between the footstick & the dam.

2 = Left bank above footstick & on top of bank & also on right bank above footstick.

Green-veined White, Speckled Wood, Peacock (1) & very fresh Small Copper (1). Butterflies seen. Brimstone [illegible] & [illegible] ♀♀ seen.

18 insects mounted from 1 & these labelled 3.9.1951.

Taken at 1.

2.5.'48, cont. Athdown, Co. Wk., cont.

[illegible] ♂ =

Sawfly 1♀ [illegible] taken on bank at back of [illegible] opposite Orobanche major island.

[illegible] 1♀, on [illegible] near footstick.

[illegible] [illegible] 3 large ♂♂: 1 [illegible], [illegible] 30.

P. [illegible] [illegible], very small, 2 [illegible] 3 ♂♂ } [illegible] both 19.

P. [illegible] 2. 3 ♂♂: 2 [illegible]; [illegible] both 20.

[illegible] [illegible] ♀ [illegible] [illegible] ♂, [illegible] 21.

[illegible] 7, several species: none [illegible]

[illegible] [illegible] ♀. [illegible] ♂♂.

[illegible] [illegible], large ♀, [illegible] 30.

[illegible] [illegible] ♂ [illegible] 25. [illegible] ♂, [illegible]
var. with dark legs?

[illegible] [illegible] ♀, [illegible] 31.

[illegible] [illegible] 3 ([illegible] 15), [illegible] 4, ♀♀ [illegible]!

[illegible] [illegible] : [illegible]

Procts 2 } none with [illegible].
Chalcids 4
Cynipids 2

2.5.48, cont. Ashdown, Co. Wk., cont.

Insects taken at 2. [32 metres from [illegible] [illegible] tabled on 7.9.1947]

Dryinid 1♂ =

[Xysta jolis? ♀ swept by Greta off [illegible]]

Cratichneumon 2♂♂. not std.

Leptocryptus [illegible] ♀, ant. 18

Hemiteles bicolorinus group ♀, ant. 22 =

Rhyssolemus ♂. not std.

Pimpla brassicariae? 1♂, 1♀, [illegible] [illegible] ant. 20, [illegible]!

P. [illegible] gravenhorsti 7♂♂, 2♀♀; [illegible] [illegible]

with black front legs: 1♂, 1♀ std., ant. [illegible].

P. [illegible] group ♂: ant. 30, right wings torn off

Hypophyla of pectipes ♂, ant. 36, hind tibiae mutilated!

Homocidus tarsatorius ♂, ant. 21

Stenomacrus ventralis, typically pale ♀. Not std.

St. [illegible]? ♀ ant. 23, abdomen only partly compressed!

Poniscus [illegible]: ant. 43.

Campoplegidae 19: 3♀♀ only std. =

Apeslepha [illegible] ♂, ant. 22.

Orgilidae 3 = A. [illegible] 2♂♂, ant. 17 & 18.

A. (Symaldus) [illegible]! ♀, ant. 17, head crushed, legs [illegible].

2.5.48, cont. Ashdown, Co. Wk., cont.

Taken at 2, cont.

Dacnusa [illegible] [illegible]? ♂, with stemmata! [illegible]

D. [illegible]: ♂: not std.

[D. [illegible] ♂ taken by Greta!]

Ephedrus [illegible] 4: 2♂♂, 2♀♀, [illegible] upon [illegible] = [illegible]

Monoctonus [illegible]? ♀, ant. 13

M. [illegible]? ♂, [illegible]. Not std.

Proctos. 1 =

Chalcids 5, 1 mounted with thickened mid tibiae, which have two black spots on apex =

Cynipoidea 2: not std.

[Small beetle in mucilage very stiff — possibly in the [illegible] since last year] labelled "Ashdown"!!!

=

3rd May 1948. Cold & dull with [illegible] rain during morning & night of 3rd–4th.

4th May 1948. Milder, with [illegible] rain, but [illegible] rain & strong W. wind in evening. Swifts arrived & Swans hatched in nest above Portobello Bridge! At 7 P.M. 2 Swifts flying over back garden & near nesting site in roof of back return of No. 8 Clareville Rd. Quite silent!

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6th May, 1948 (Thursday). A most beautiful day – the best for some time & nearly all sunny; milder than of late, but fairly strong W. breeze.

In afternoon drove to Glenasmole & walked up to head of upper reservoir, which was practically at high water mark.

Swept insects [illegible] two areas, as follows:–

1 = side of path from caretaker's lodge (now Mr Murphy, formerly Mr Moore!) to W. end of upper dam.

2 = Willows by shore of reservoir above the boat "dock" for 200 yards, & willows, &c. along shore (H. Water Mark!) at head of upper reservoir.

[Results from 1 & those labelled on 15.9.1951.]

Insects swept at 1, Glenasmole, Co. DU. 3.0–3.30 P.M.

Hymenoptera =

Phaeogenid ♀ = Aethecerus discolor Wesm. A.W.S. 23.9.51.

Cryptinids 4 ♂♂ 3 mtd: = Phaeogenes? sp. ♂, mtd. 21.

Phaeogenes? sp. ♂, mtd. 22. Hemiteles? sp. ♂, mtd. 25.

Orthocentrus cf. asper ♂, mtd. 24.

[illegible] [illegible] 2 ♀♀: not mtd.

Apanteles retripennis? ♀, A.W.S. 23.9.1951.

[illegible] ochripes? ♂, mtd. 24; legs rather dark!

6.5.48, cont. Glenasmole, DU., cont. 257

Taken at 1, cont.

Mesochorus sp. ♂: not mtd.

Aspilota [illegible] = A. cf. ruficornis & ♂, mtd. 26.

A. nigricornis ♂ & ♀, mtd. 19 & 16. A. [illegible] ♂, mtd. 16.

[illegible] of [illegible] but [illegible], [illegible] ♀, mtd. [illegible].

A. (Synaldis) ♀ mtd. 16.

Dacnusa [illegible] 2 ♂♂, not mtd. D. [illegible] ♂, not mtd.

D. longiradialis ♀, with very long radius! mtd. 20.

D. ephippiata ♂: not mtd.

[illegible] [illegible] & small ♂, rather dark legs, mtd. 11.

Also 2 ♀♀ of [illegible] & [illegible]: none mtd.

[illegible] [illegible] 2 ♀♀: none mtd.

Aphidius 4 ♂♂, 1 ♀: ♀ mtd. = A. [illegible]: small ♀, mtd. 12.

Proctos 3: none mtd.

Chalcids 11, mtd 2: one with [illegible] antennae & one Mymarid.
the last 2 only mounted =

Cynipids 3: not mtd.

Hemiptera = Elasmostethus griseus, ♂ with no trace of red colour.

6.5.48, cont. Glenasmole, Dn., cont.

Taken at 2. [2 mtd. from 2 & those labelled on 15.9.1951]

[illegible] 2♂♂, 1♀: 2♂ only mounted, [illegible] ent. 24

[illegible] punctatum 2♂♂.
[illegible] ♂
[illegible] ♀.
} none mtd.

[illegible] 1♂, not mtd.

[illegible] ♀

Phaenocarpa galatea 2♂♂, 1♀, all swept off [illegible] within 100 yards above the boat dock: ent. 23 (♂♂) & 22 (♀).

Pentapleura pumilio 1♂, 1♀, very small with dark legs, not mtd.

Aspilota sp 2 = Aspilota [illegible] 1♂ ent. 22, 1♀ ent. 18
propodeum smooth with central longitudinal [illegible] strip.

Dacnusa areolaris 1♂, 1♀ D. ~~[illegible]~~ griseipes 1♂
D. [illegible] 1♂ D. affinis 2♂♂, ♀
} none mtd.

D. sp near [illegible] 2♂, dark legs, ent. 18. but not affinis [illegible].

D. [illegible] ♂, with [illegible] & dark legs! [illegible]

= D. maculipes? with large [illegible] ♂, ent. 23

6.5.48, cont. – Glenasmole, Dn., cont.

Taken at 2, cont.

Dacnusa affinis ♀, [illegible], not mtd.

[illegible] 2 ♂, not mtd.

[illegible] 3 ♀♀, not mtd.

[illegible] ? ♀, ent. 13. very large specimen!

Proctos. 3: none mtd.

Chalcids 3: none mtd.

Sawflies [illegible] = [illegible]

6-9th May 1948.

Garden, 19 [illegible] Rd., Harold's Cross, Dn.

Nematus ribesii (= [illegible]!) 1♂ seen, 1 taken, mounted

Pimpla oculatoria ♂, ent. 28.

Bombus jonellus, a very fresh ♀ working [illegible] bed of flowers of [illegible] — now in full flower — in front garden, at 6 PM. [1♂ seen on 18th!]

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9th May 1948. A dull misty morning, with glass steadily dropping downwards all day, but sun occasionally broke or showed through clouds in afternoon & again after 6 P.M.; very mild — sultry & warm, when sheltered from the keen easterly breeze. Left home at 10.30 A.M. & drove to R. Liffey, S. of Oxbenstown Ho., Sallins, to get further specimens of supposed Salix repens X for Desmond Meikle & then there collected by sweeping Salix & Alnus & the ground vegetation where possible — the latter very wet with dew!

Drove on to Grand Canal 1/2 mile E. of Landenstown House at 1 P.M. & had lunch, then swept plantation & fields, & S. of road from 2 P.M. till 3.30, but very few hymenoptera about. Most ash not yet in flower, but birches in leaf, but nothing on them. The great reed bed along S. side of canal between Landenstown lock & plantation all gone! — dug out 1946 & thrown up in banks to widen canal & all the collecting ground destroyed.

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9.5.48, cont. R. Liffey, S. of Oxbenstown Ho., Co. K.D.
=(1) 9.5.48. 11.30 till 1 P.M. [17 [illegible] bottles

Ichneumon extensorius ♂, common.
[illegible] 10 ♂ [illegible], the [illegible] very [illegible]
[illegible], which [illegible] very prominent [illegible] =

[illegible] ♂ [illegible].
Homotropus [illegible] ♂ [illegible].
Orthocentrus sp. ♂ [illegible].
[illegible] ♀ [illegible] =
Bracon [illegible] of pectoralis ♂, wings nearly torn off; [illegible] 34.
Rhogas [illegible] ♂ [illegible] ♂, [illegible] 31
[illegible] ♀ [illegible] [illegible] 30
[illegible] ♀, [illegible] 17, [illegible]
[illegible] ♂; [illegible]
D. [illegible] ♀ [illegible] aplanta [illegible] ♀, [illegible] 27, [illegible]
D. [illegible] (= [illegible]) 2♂♂, 1♀, [illegible] 24, 26 & 31; [illegible] ♂, [illegible] 32 [illegible] }
[illegible] ♂ ♀. [illegible]

Procto. 4 : 3 [illegible] =

Sawflies. 3. Empria [illegible] ♂ & E. [illegible] ♀.
Pontania [illegible] ♀.

9.5.45, cont. (2) Landenstown, Co. KD. [20 insects mounted & then labelled on 27.9.1951.]

Sawflies. Dolerus bimaculatus ♂, by road W. of [illegible].

Pontania 3

Blennocampa tenuicornis ♀.

Cryptinae 9. Including Hemiteles ♂ (gracilis group) ♂♂
1 ♂ only ntd = Leptocryptus ♂, ant. 23.

Pimpla alternans var. kolthoffi 2♂♂ {the smaller with decidedly clavate 24 seg. antennae & shorter apical segment, the larger with only 22 seg. antennae, more filiform & with longer ant. apical segment.}

Exochus cf. pictus 1♀, small & dark, ant. 29.

Homocidus pulchellus & [illegible] ♂♂ : not ntd

Zootrephus [illegible] : ♂, ant. 21, [illegible] abdomen.

Campoplegidae 2 (1♂, 1♀): none ntd.

Bracon cf. hispitergae ♀, large, ant 28, [illegible]

Microplitis xanthopus ♂. Apanteles cf. [illegible] ♂

Aphaereta major ♂ ant. 22. Aspilota (Synaldis) [illegible] ♂.

Dacnusa [illegible], 2♂♂, ♀ : 1♂, 1♀ ntd, ant. 24 & 21 respectively

D. [illegible] 1. ntd. D. affinis ♂ ntd. D. [illegible] ♂ not ntd.

D. (?) [illegible] 1♂, 1♀, ant. 27 & 24. D. [illegible]lipes ♂, ant. 22.

Mesochorus [illegible] : not ntd.

Aphidiinae [illegible] ♂ not ntd.

2 Beetles, 1 small, red head & red thorax (probably [illegible] off [illegible]')
= Dacne humeralis F. (= bipustulata Thunb.) fide Dr. O'Mahony & new
to the Irish List. Also!

19th May 1948. A very fine day, [illegible], after a chilly, wet day, [illegible]. Co. DL. [13 mounted & then labelled 6.10.1951.]

[illegible] to Bally[illegible] bridge & walked up Grand Canal to Gollierstown Bridge. Collecting by sweeping edge of canal on way, [illegible] SW of Gollierstown Bridge, & that NW of bridge, & [illegible] field [illegible]. 3 till 4.30 P.M.

Bombus [illegible], [illegible], [illegible].

Cryptinae 6♂♂ (3 Hemiteles & 3 [illegible]): only ntd =
Hemiteles ♂ ant. 14 [illegible].

Stenomacrus [illegible] ♀, ant. 25

Lathrolestes [illegible] 2♀♀ taken by [illegible]

Bracon hispitergae 2♂♂ ant 22, 23} Dacnusa cf. caudata ♂ ant. 21, [illegible]}

Aspilota [illegible] (Hal.) Th. ♀, ant 22} Blacus ruficornis ♀, not ntd

Opius pendulus ♂, ant. 19. Alysia contracta ♂, not ntd

Pentapleura pumilio ♂ & ♀ : not ntd.

Aspilota minor ♂, ntd. A. [illegible] ♀ ant. 19. (A. 15) [illegible] ♂, ntd.

Dacnusa [illegible] 2♂♂. Gyrocampa cf. elegans 5♂♂, 1♀, [illegible] ♀ mounted, ant. 27 & 25.

Gyrocampa striola [illegible] ♀, ant. 21, very nice specimen!

Chorebus [illegible] large ♂, ant 26. Blacus [illegible] 1♂, 1♀ : not ntd

Mesochorus [illegible] ♂ ntd. Aphidiinae [illegible] 7 : none ntd

Proctos. 3 : none ntd   Beetle (jumping) :

[First Crabro [illegible] ♂♂ seen in garden, [illegible] Rd., Dublin
at 1 P.M.]

May 1948.

Mrs Zoë Hall of Newport House, Donabate, brought me a mass of spider's egg-bags — such as one finds in outhouses that are not often cleaned or dusted — from which she had bred a ♀ Pimpla oculatoria (ant. 26) & from which I later bred 2 larger ♀♀ of the same species (ant. both 29) & also a ♂ & ♀ Hemiteles sp.? of which the ♂ ant. had 24 segments & the ♀ 25 segments. These emerged between 13th & 21st May

14th May 1948.

Spathius exarator 3 ♂♂, 2 small ♀♀ taken in motor house, 14 Clareville Rd, Harold's Cross, Dublin, running about boards infested with Anobium punctatum